

# SEQUENCE LISTING

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identification of allele of HLA

<130> g10003828A

<150> JP2003-430553

<151> 2003-12-25

<150> JP2003-430554

<151> 2003-12-25

<150> JP2003-430556

<151> 2003-12-25

<150> JP2003-430555

<151> 2003-12-25

<150> JP2003-430558

<151> 2003-12-25

<150> JP2003-430559

<151> 2003-12-25

<150> JP2003-430557

<151> 2003-12-25

<160> 3481

<170> PatentIn version 3.2

<210> 1

<211> 897

<212> DNA

<213> Homo sapiens

<400> 1

atggcgcgtca tggcgcccccg aaccctcctc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcgggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggagggccg gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 2

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2



gctcccactc catgaggtat ttctttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accaggagac acggaatatg aaggcccaact cacagactga ccgagcgaac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agattaccaa gcgcaagtgg gaggcgggtcc atgcggcgga gcagcggaga  
gtctacctgg 480

agggccggtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 3  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 3  
atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggagggccg gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtggggcggt gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 4

<211> 546

<212> DNA

<213> Homo sapiens

<400> 4

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggaac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggctc atgcggcgga gcagcggaga  
gtctacctgg 480

agggccgggtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 5  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 5  
gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggctc atgcggcgga gcagttgaga  
gcctacctgg 480

agggccggtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 6

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gtctacctgg 480

agggccggtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 7  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 7  
gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gtctacctgg 480

agggctggtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 8  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 8  
atggcgtca tggcgccccg aaccctcctc ctgctactct cgggggcccct  
ggccctgacc 60  
  
cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
agtgcggttc 180  
  
gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300  
  
aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggtttctca  
caccatccag 360  
  
ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta  
ccggcaggac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540  
  
agagtctacc tggagggccg gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 9

<211> 897

<212> DNA

<213> Homo sapiens

<400> 9

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccttgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 10

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540



gcacgg  
546

<210> 11  
<211> 875  
<212> DNA  
<213> Homo sapiens

<400> 11  
aaccctcgtc ctgctactct cgggggctct ggccctgacc cagacctggg  
cgggctctca 60  
  
ctccatgagg tattttcttca catccgtgtc ccggcccggc cgcggggagc  
cccgttcat 120  
  
cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg  
ccgcgagcca 180  
  
gaggatggag ccgcgggcgc cgtggataga gcaggagggc ccggagtatt  
gggacgggga 240  
  
gacacggaaa gtgaaggccc actcacagac tcatcgagtg gacctgggga  
ccctgcgcgg 300  
  
ctactacaac cagagcgagg ccggttctca caccgtccag aggatgtatg  
gctgcgacgt 360  
  
ggggtcggac tggcgcttcc tccgcgggta ccaccagtac gcctacgacg  
gcaaggatta 420  
  
catcgccctg aaagaggacc tgcgctcttg gaccgcggcg gacatggcag  
ctcagaccac 480  
  
caagcacaag tgggaggcgg cccatgtggc ggagcagttg agagcctacc  
tgagggcac 540  
  
gtgctgtggag tggctccgca gatacctgga gaacgggaag gagacgctgc  
agcgcacgga 600  
  
cgccccaaa acgcatatga ctcaccacgc tgtctctgac catgaagcca  
ccctgaggtg 660  
  
ctgggccctg agcttctacc ctgcggagat cacactgacc tggcagcggg  
atggggagga 720

ccagacccag gacacggagc tcgtggagac caggcctgca ggggatggaa  
ccttccagaa 780

gtgggcggt gtggtggtgc cttctggaca ggagcagaga tacacctgcc  
atgtgcagca 840

tgagggtttg cccaagcccc tcacctgag atggg  
875

<210> 12

<211> 546

<212> DNA

<213> Homo sapiens

<400> 12

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cggcctgaaa gaggacctgc gctcttggac cgcagcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 13  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 13  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaagacctgc gctcttggac cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600  
  
tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660  
  
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720  
  
tccagaagtg ggcggtgtgt gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 14  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 14  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgattcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccagagac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 15

<211> 822

<212> DNA

<213> Homo sapiens

<400> 15

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgt  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gacccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 16

<211> 822

<212> DNA

<213> Homo sapiens

<400> 16

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggcctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acagagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 17

<211> 822

<212> DNA

<213> Homo sapiens

<400> 17

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccacaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtctgt gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 18

<211> 822

<212> DNA

<213> Homo sapiens

<400> 18

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccggag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctgc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480



agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 19

<211> 897

<212> DNA

<213> Homo sapiens

<400> 19

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 20

<211> 897

<212> DNA

<213> Homo sapiens

<400> 20

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
cacagtccag 360

atgatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 21

<211> 897

<212> DNA

<213> Homo sapiens

<400> 21

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagccg gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tgcgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 22

<211> 897

<212> DNA

<213> Homo sapiens

<400> 22

atggcgcgtca tggcgccccc aaccctcgct ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
cacgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 23

<211> 897

<212> DNA

<213> Homo sapiens

<400> 23

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
cacgtccag 360

aggatgtgtg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgggt gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 24

<211> 550

<212> DNA

<213> Homo sapiens

<400> 24

tgggcgggct ctcactccat gaggtatttc tacacctccg tgtcccggcc  
cggccgcggg 60

gagccccgct tcatcgcagt gggctacgtg gacgacacgc agttcgtgcg  
gttcgacagc 120

gacgccgcga gccggaggat ggagccgcgg gcgccgtgga tagagcagga  
gggtccggag 180

tattgggacg gggagacacg gaatgtgaag gccactcac agactcaccg  
agtggacctg 240

gggaccctgc gcggctacta caaccagagc gaggccgggt ctcacaccct  
ccagaggatg 300

tatggctgcg acgtggggtc ggactggcgc ttcttgcgcg ggtaccacca  
gtacgcctac 360

gacggcaagg attacatcgc cctgaaagag gacctgcgct cttggaccgc  
ggcggacatg 420

gcagctcaga ccaccaagca caagtgggag gcggcccatg tggcggagca  
gtggagagcc 480

tacctggagg gcacgtgcgt ggagtggctc cgcagatacc tggagaacgg  
gaaggagacg 540

ctgcagcgca  
550

<210> 25

<211> 897

<212> DNA

<213> Homo sapiens

<400> 25

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgaa 780

ggggatggaa ccttccagaa gtgggagggt gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897



<210> 26  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 26  
atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60  
  
cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240  
  
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360  
  
aggatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 27

<211> 897

<212> DNA

<213> Homo sapiens

<400> 27

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 28

<211> 897

<212> DNA

<213> Homo sapiens

<400> 28

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 29

<211> 897

<212> DNA

<213> Homo sapiens

<400> 29

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgaggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 30

<211> 892

<212> DNA

<213> Homo sapiens

<400> 30

cgtcatggcg ccccgaaacc tcgtcctgct actctcgggg gctctggccc  
tgaccacagc 60

ctgggcgggc tctcactcca tgaggatatt ctacacctcc gtgtcccggc  
ccggccgcgg 120

ggagccccgc ttcatcgcag tgggctacgt ggacgacacg cagttcgtgc  
ggttcgacag 180

cgacgccgcg agccggagga tggagccgcg ggcgccgtgg atagagcagg  
agggtccgga 240

gtattgggac ggggagacac ggaaagtga ggcccactca cagactcacc  
gagtggaact 300

ggggaccctg cgcggtact acaaccagag cgaggccggt tctcacaccc  
 tccagaggat 360  
  
 gtatggctgc gacgtggggt cggactggcg cttcctgcgc gggtagacc  
 agtacgccta 420  
  
 cgacggcaag gattacatcg ccctgaaaga ggacctgcgc tcttggaccg  
 cggcggacat 480  
  
 ggcagctcag accaccaagc acaagtggga ggcggcccat gtggcggagc  
 agttgagagc 540  
  
 ctacctggag ggcacgtgcg tggagtggct ccgcagatac ctggagaacg  
 ggaaggagac 600  
  
 gctgcagcgc acggacgccc ccaaaacgca tatgactcac cacgctgtct  
 ctgacctga 660  
  
 agccaccctg aggtgctggg ccctgagctt ctaccctgcg gagatcacac  
 tgacctggca 720  
  
 gcgggatggg gaggaccaga ccagagacac ggagctcgtg gagaccaggc  
 ctgcagggga 780  
  
 tggaaccttc cagaagtggg cggctgtggg ggtgccttct ggacaggagc  
 agagatacac 840  
  
 ctgccatgtg cagcatgagg gtttgcccaa gcccctcacc ctgagatggg ag  
 892

<210> 31  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
 ggccctgacc 60  
  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
 ccggcccggc 120  
  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
 cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggaggggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 32

<211> 897

<212> DNA

<213> Homo sapiens

<400> 32

atggcgcgtca tggctccccg aaccctcgct ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
cacctccag 360

atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcacccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 33

<211> 781

<212> DNA



<213> Homo sapiens

<400> 33

atggcgcgtca tggcgcccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
cacctccag 360

atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcacccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

g  
781

<210> 34  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 34  
atggcgcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60  
  
cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360  
  
aggatgtgtg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacaaggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 35

<211> 546

<212> DNA

<213> Homo sapiens

<400> 35

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 36

<211> 546

<212> DNA

<213> Homo sapiens

<400> 36

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaatgtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 37

<211> 546

<212> DNA

<213> Homo sapiens

<400> 37

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaacgtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 38

<211> 897

<212> DNA

<213> Homo sapiens

<400> 38

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggaca acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 39

<211> 897

<212> DNA

<213> Homo sapiens

<400> 39

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 40

<211> 546

<212> DNA

<213> Homo sapiens

<400> 40

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtaacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 41  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 41  
gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccgccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240



tgcgcggtcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagacggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 42

<211> 891

<212> DNA

<213> Homo sapiens

<400> 42

gtcatggcgc cccgaaccct cgtcctgcta ctctcggggg ctctggccct  
gacctagacc 60

tgggcgggct ctcaactccat gaggtatttc ttcacatccg tgtcccggcc  
cggccgcggg 120

gagccccgct tcatcgcagt gggctacgtg gacgacacgc agttcgtgcg  
gttcgacagc 180

gacgccgcga gccagaggat ggagccgcgg gcgccgtgga tagagcagga  
gggtccggag 240

tattgggacg gggagacacg gaaagtgaag gccactcac agactcaccg  
agtggacctg 300

gggaccctgc gcggctacta caaccagagc gaggccgggt ctcacaccgt  
ccagaggatg 360

tatggctgcg acgtggggtc ggactggcgc ttctccgcg ggtaccacca  
gtacgcctac 420

gacggcaagg attacatcgc cctgaaagag gacctgcgct cttggaccgc  
ggcggacatg 480

gcagctcaga ccaccaagca caagtgggag gcggcccatg aggcggagca  
gttgagagcc 540

tacctggagg gcacgtgcgt ggagtggctc cgcagatacc tggagaacgg  
gaaggagacg 600

ctgcagcgc cggacgcccc caaaacgcat atgactcacc acgctgtctc  
tgaccatgaa 660

gccaccctga ggtgctgggc cctgagcttc taccctgcgg agatcacact  
gacctggcag 720

cgggatgggg aggaccagac ccaggacacg gagctcgtgg agaccaggcc  
tgcaggggat 780

ggaaccttcc agaagtgggc ggctgtggtg gtgccttctg gacaggagca  
gagatacacc 840

tgccatgtgc agcatgaggg tttgcccaag cccctcacc tgagatggga g  
891

<210> 43

<211> 546

<212> DNA

<213> Homo sapiens

<400> 43

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 44

<211> 546

<212> DNA

<213> Homo sapiens

<400> 44

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 45  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 45  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggcaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtaacgc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 46

<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 46

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca gtccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 47  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 47  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

ggagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 48  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 48

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtctg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 49  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 49  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccagt cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600  
  
tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660  
  
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720  
  
tccagaagtg ggcggtgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780



tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 50  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 50  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 51  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 51  
 gctctcactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
 ggggagcccc 60  
  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120  
  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
 gagtattggg 180  
  
 acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
 ctggggaccc 240  
  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
 atgtatggct 300  
  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtaacgc  
 tacgacggca 360  
  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
 atggcagctc 420  
  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
 gcctacctgg 480  
  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
 acgctgcagc 540  
  
 gcacgg  
 546

<210> 52  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 gctctcactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
 ggggagcccc 60  
  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
 agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 53  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 53  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gagacggccc atgaggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 54

<211> 546

<212> DNA

<213> Homo sapiens

<400> 54

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 55  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 55  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 56  
<211> 546

<212> DNA

<213> Homo sapiens

<400> 56

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca gcagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 57

<211> 546

<212> DNA

<213> Homo sapiens

<400> 57

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 58

<211> 546

<212> DNA

<213> Homo sapiens

<400> 58

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 59

<211> 546

<212> DNA

<213> Homo sapiens

<400> 59

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

accaggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480



agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 60  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 60  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggcctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 61  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 61  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccggag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccaact cacagagtca ccgagtggac  
ctggggaccc 240  
  
tgcgcggtta ctacaaccag agcgaggccg gttctcacac cctccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggactgg cgcttcctgc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 62  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 62

gctctcactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 63

<211> 546

<212> DNA

<213> Homo sapiens

<400> 63

gctctcactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 64

<211> 546

<212> DNA

<213> Homo sapiens

<400> 64

gctcccactc catgaggtat ttcttcacat ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 65

<211> 546

<212> DNA

<213> Homo sapiens

<400> 65

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 66  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 66  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180  
  
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 67  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 67

gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 68

<211> 546

<212> DNA

<213> Homo sapiens

<400> 68

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 69

<211> 895

<212> DNA

<213> Homo sapiens

<400> 69

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360



aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtaggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atggg 895

<210> 70

<211> 897

<212> DNA

<213> Homo sapiens

<400> 70

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggt 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 71

<211> 546

<212> DNA

<213> Homo sapiens

<400> 71

gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 72

<211> 822

<212> DNA

<213> Homo sapiens

<400> 72

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
gaggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 73

<211> 546

<212> DNA

<213> Homo sapiens

<400> 73

gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg  
gagtattggg 180

acggggagac acggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 74

<211> 897

<212> DNA

<213> Homo sapiens

<400> 74

atggcgtca tggcgcccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc  
ggagcagttg 540

agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 75

<211> 546

<212> DNA

<213> Homo sapiens

<400> 75

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagctgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 76

<211> 546

<212> DNA

<213> Homo sapiens

<400> 76

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 77  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 77  
atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggacct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660



catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcacctgag  
atgggag 897

<210> 78

<211> 897

<212> DNA

<213> Homo sapiens

<400> 78

atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc  
ggagcagttg 540

agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga  
gaaccggaag 600

gagacgctgc agcgcacgga cccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcaccctgag  
atgggag 897

<210> 79

<211> 858

<212> DNA

<213> Homo sapiens

<400> 79

tctcgggggc cctggccctg acccagacct gggcgggctc ccactccatg  
aggtatttct 60

tcacatccgt gtcccggccc ggccgcgggg agccccgctt catcgccgtg  
ggctacgtgg 120

acgacacgca gttcgtgcgg ttcgacagcg acgccgcgag ccagaggatg  
gagccgcggg 180

cgccgtggat agagcaggag gggccggagt attgggacca ggagacacgg  
aatgtgaagg 240

cccagtcaca gactgaccga gtggacctgg ggaccctgcg cggctactac  
aaccagagcg 300

aggccggttc tcacaccatc cagataatgt atggctgcga cgtgggggtcg  
gacgggcgct 360

tcctccgcgg gtaccggcag gacgcctacg acggcaagga ttacatcgcc  
ctgaacgagg 420

acctgcgctc ttggaccgcg gcggacatgg cggctcagat caccaagcgc  
aagtgggagg 480

cggcccatga ggcggagcag ttgagagcct acctggaggg cacgtgcgtg  
gagtggctcc 540

gcagatacct ggagaacggg aaggagacgc tgcagcgcac ggaccccccc  
aagacacata 600

tgaccaccca ccccatctct gaccatgagg ccaccctgag gtgctggggc  
ctgggcttct 660

accctgcgga gatcacactg acctggcagc gggatgggga ggaccagacc  
caggacacgg 720

agctcgtgga gaccaggcct gcaggggatg gaaccttcca gaagtgggcg  
gctgtggtgg 780

tgctttcttg agaggagcag agatacacct gccatgtgca gcatgagggt  
ctgccaagc 840

ccctcaccct gagatggg  
858

<210> 80

<211> 546

<212> DNA

<213> Homo sapiens

<400> 80

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atgccacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 81  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 81  
gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 82  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 82  
gctcccaactc catgaggtat ttcttcacat ccgtgtcccg gcccgggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagactga ccgagtggac  
ctgggggaccc 240

tgcgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 83

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 83  
gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accaggagac acggaatgtg aaggcccagt cacagactca ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480  
  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 84  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 84  
gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggtc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 85  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 85  
atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcggt ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggt gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 86

<211> 822

<212> DNA

<213> Homo sapiens

<400> 86

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120



cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctgggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcagac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggaccc cccaagaca catatgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggtgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctctgcc aagcccctca ccctgagatg gg  
822

<210> 87

<211> 895

<212> DNA

<213> Homo sapiens

<400> 87

atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcggaagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atggg 895

<210> 88

<211> 546

<212> DNA

<213> Homo sapiens

<400> 88

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc gtgaggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 89

<211> 897

<212> DNA

<213> Homo sapiens

<400> 89

atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 90

<211> 897

<212> DNA

<213> Homo sapiens

<400> 90

atggcogtca tggcgccccg aaccctcctc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac cgagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa cttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 91  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 91  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 92  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 92  
atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttac tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 93

<211> 546

<212> DNA

<213> Homo sapiens

<400> 93

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagcggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 94

<211> 546

<212> DNA

<213> Homo sapiens

<400> 94

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120



cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgc 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 95

<211> 546

<212> DNA

<213> Homo sapiens

<400> 95

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 96

<211> 546

<212> DNA

<213> Homo sapiens

<400> 96

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 97  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 97  
ggctcccact ccatgaggta tttctacacc tccgtgtccc ggcccggccg  
cggggagccc 60

cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttcga  
cagcgacgcc 120

gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggaggggcc  
ggagtattgg 180

gaccaggaga cacggaatgt gaaggcccag tcacagactg accgagtgga  
cctggggacc 240

ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat  
aatgtatggc 300

tgcgacgtgg ggccggacgg gcgcttcctc cgcgggtacc ggcaggacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcagct 420

cagatcacca agcgcaagtg ggaggcggcc catgcggcgg agcagcagag  
agcctacctg 480

gagggccggt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcacg  
546

<210> 98  
<211> 546

<212> DNA

<213> Homo sapiens

<400> 98

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccag gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 99

<211> 573

<212> DNA

<213> Homo sapiens

<400> 99

ccctggccct gaccagacc tgggcgggct cccactccat gaggtatttc  
tacacctccg 60

tgtcccggcc cggccgcggg aagccccgct tcatcgccgt gggctacgtg  
gacgacacgc 120

agttcgtgcg gttcgacagc gacgccgcga gccagaggat ggagccgcgg  
gcgccgtgga 180

tagagcagga ggggccggag tattgggacc aggagacacg gaatgtgaag  
gccagtcac 240

agactgaccg agtggacctg gggaccctgc gcggctacta caaccagagc  
gaggacggtt 300

ctcacaccat ccagataatg tatggctgcg acgtggggcc ggacggggcg  
ttcctccgcg 360

ggtaccggca ggacgcctac gacggcaagg attacatcgc cctgaacgag  
gacctgcgct 420

cttggaccgc ggcggacatg gcagctcaga tcaccaagcg caagtgggag  
gcggcccgtc 480

gggcggagca gcagagagcc tacctggagg gccggtgcgt ggagtggctc  
cgcagatacc 540

tggagaacgg gaaggagacg ctgcagcgca cgg  
573

<210> 100

<211> 897

<212> DNA

<213> Homo sapiens

<400> 100

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
cacctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 101

<211> 546

<212> DNA

<213> Homo sapiens

<400> 101

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 102

<211> 546

<212> DNA

<213> Homo sapiens

<400> 102

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 103

<211> 546

<212> DNA

<213> Homo sapiens

<400> 103

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540



gcacgg  
546

<210> 104  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 104  
gctcccactc catgaggtgt ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 105  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 105

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacaggga aa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac gagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 106  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 106  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60  
  
cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagag 300  
  
aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360  
  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660  
  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa cttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 107

<211> 897

<212> DNA

<213> Homo sapiens

<400> 107

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggcct  
ggcctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcacctgag  
atgggag 897

<210> 108

<211> 546

<212> DNA

<213> Homo sapiens

<400> 108

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 109  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 109  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcagagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 110

<211> 546

<212> DNA

<213> Homo sapiens

<400> 110

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtatgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 111  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 111

atggcctgca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780



ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 112

<211> 546

<212> DNA

<213> Homo sapiens

<400> 112

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcactg

546

<210> 113

<211> 897

<212> DNA

<213> Homo sapiens

<400> 113

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcctt  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 114

<211> 546

<212> DNA

<213> Homo sapiens

<400> 114

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 115

<211> 546

<212> DNA

<213> Homo sapiens

<400> 115

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 116

<211> 897

<212> DNA

<213> Homo sapiens

<400> 116

atggcgcgtca tggcgccccc aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc agtcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
cacctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 117

<211> 897

<212> DNA

<213> Homo sapiens

<400> 117

atggcgtca	tggcgccccg	aaccctcgtc	ctgctactct	cgggggccct
ggccctgacc	60			
cagacctggg	caggctccca	atccatgagg	tatttctcca	catccgtgtc
ccggccccgc	120			
cgcggggagc	cccgtttcat	cgccgtgggc	tacgtggacg	acacgcagtt
cgtgcggttc	180			
gacagcgacg	ccgcgagcca	gaggatggag	ccgcggggcg	cgtggataga
gcaggagggg	240			
ccggagtatt	gggacgggga	gacacggaaa	gtgaaggccc	actcacagac
tgaccgagag	300			
aacctgcgga	tcgcgctccg	ctactacaac	cagagcgagg	ccggtttctca
cacctccag	360			
atgatgtttg	gctgcgacgt	ggggtcggac	gggcgcttcc	tccgcgggta
ccaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aaagaggacc	tgcgctcttg
gaccgcggcg	480			
gacatggcgg	ctcagatcac	caagcgcaag	tgggaggcgg	cccatgtggc
ggagcagcag	540			
agagcctacc	tggagggcac	gtgcgtggac	gggctccgca	gataacctga
gaacgggaag	600			
gagacgctgc	agcgcacgga	ccccccaag	acacatatga	cccaccaccc
catctctgac	660			
catgaggcca	ctctgagatg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggggagga	ccagaccag	gacacggagc	ttgtggagac
caggcctgca	780			
ggggatggaa	ccttccagaa	gtgggcagct	gtggtggtac	cttctggaga
ggagcagaga	840			
tacacctgcc	atgtgcagca	tgagggtctg	cccaagcccc	tcacctgag
atgggag	897			

<210> 118  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 118  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480  
  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 119  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 119  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 120

<211> 546

<212> DNA

<213> Homo sapiens

<400> 120

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcggatcg 240



cgctccgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg  
atgtatggct 300

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 121

<211> 546

<212> DNA

<213> Homo sapiens

<400> 121

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 122

<211> 546

<212> DNA

<213> Homo sapiens

<400> 122

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 123  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 123  
gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480  
  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 124  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 124  
gctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 125

<211> 546

<212> DNA

<213> Homo sapiens

<400> 125

gctcccaatc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 126

<211> 546

<212> DNA

<213> Homo sapiens

<400> 126

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 127

<211> 897

<212> DNA

<213> Homo sapiens

<400> 127

atggcctgta tggcgccccg aaccctcgta ctgctactct cgggggacct  
ggcctgacc 60

cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacaggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagtctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcacgga cccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcagct gtggtggtac cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 128

<211> 546

<212> DNA

<213> Homo sapiens

<400> 128

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggactgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 129  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 129  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 130



<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 130  
gctccactc catgaggtgt ttctccacat ccgtgtcccg gcccgccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 131  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 131  
aaccctctc ctgtactct cgggggccct ggccctgacc cagacctggg  
caggctccca 60

ctccatgagg tattttctcca catccgtgtc ccggcccggc cgcgggggagc  
cccgttcat 120

cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg  
ccgcgagcca 180

gaggatggag ccgcggggcgc cgtggataga gcaggagggg ccggagtatt  
gggacgagga 240

gacagggaaa gtgaaggccc actcacagac tgaccgagag aacctgcgga  
tcgcgctccg 300

ctactacaac cagagcgagg ccggttctca caccctccag atgatgtttg  
gctgcgacgt 360

ggggtcggac gggcgcttcc tccacgggta ccaccagtac gcctacgacg  
gcaaggatta 420

catcgccctg aaagaggacc tgcgctcttg gaccgcggcg gacatggcgg  
ctcagatcac 480

caagcgcaag tgggaggcgg cccatgtggc ggagcagcag agagcctacc  
tgagggcac 540

gtgctggac gggctccgca gatacctgga gaacgggaag gagacgctgc  
agcgcacgg 599

<210> 132

<211> 619

<212> DNA

<213> Homo sapiens

<400> 132

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacagggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 133

<211> 546

<212> DNA

<213> Homo sapiens

<400> 133

gctcccactc catgaggtat ttctccacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 134

<211> 546

<212> DNA

<213> Homo sapiens

<400> 134

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac acggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 135  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 135  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggcccaact cacagactca ccgagagAAC  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggtc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 136  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 136

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgagcagac agggaaagtg aaggcccaact cacagactga ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 137

<211> 546

<212> DNA

<213> Homo sapiens

<400> 137

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 138

<211> 822

<212> DNA

<213> Homo sapiens

<400> 138

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggacgc ccccaaaacg catatgactc accacgctgt ctctgaccat  
gaagccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccacaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac  
acctgccatg 780

tgcagcatga gggtttgccc aagcccctca ccctgagatg gg  
822

<210> 139

<211> 546

<212> DNA

<213> Homo sapiens

<400> 139

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagattga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300



gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 140

<211> 546

<212> DNA

<213> Homo sapiens

<400> 140

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg tgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 141  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 141  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagctg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

acgaggagac agggaaagtg aaggccact cacagactga ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 142

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 142  
gctccactc catgagctat ttctccacat ccgtgtcccg gcccgccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac  
ctgcgatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 143  
<211> 898  
<212> DNA  
<213> Homo sapiens

<400> 143  
atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
bgaacgggaa 600

ggagacgctg cagcgcacgg acgcccccaa gacgcatatg actcaccacg  
ctgtctctga 660

ccatgaggcc accctgaggt gctggggccct gagcttctac cctgcggaga  
tcacactgac 720

ctggcagcgg gatggggagg accagaccca ggacacggag ctcgtggaga  
ccaggcctgc 780

aggggatggg accttccaga agtgggcgtc tgtggtggtg ccttctggac  
aggagcagag 840

atacacctgc catgtgcagc atgaggggtct gcccaagccc ctcaccctga  
gatgggag 898

<210> 144

<211> 897

<212> DNA

<213> Homo sapiens

<400> 144

atggcgcgtca tggcgcccccg aaccctcgtc ctgctactct cggggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcaccctgag  
atgggag 897

<210> 145

<211> 546

<212> DNA

<213> Homo sapiens

<400> 145

gctcccactc catgaggtat ttcttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg

546

<210> 146

<211> 546

<212> DNA

<213> Homo sapiens

<400> 146

gctccctactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccctact cacagactga ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagcagaga  
gcctacctgg 480

agggccgggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 147

<211> 897

<212> DNA

<213> Homo sapiens

<400> 147

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 148

<211> 897

<212> DNA

<213> Homo sapiens

<400> 148

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcctt  
ggccctgacc 60



cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
cggccccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcagaac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 149

<211> 897

<212> DNA

<213> Homo sapiens

<400> 149

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tcaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcaccctgag  
atgggag 897

<210> 150

<211> 897

<212> DNA

<213> Homo sapiens

<400> 150

atggcctgca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 151

<211> 897

<212> DNA

<213> Homo sapiens

<400> 151

atggcgcgtca tggcgccccc aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 152

<211> 546

<212> DNA

<213> Homo sapiens

<400> 152

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcgggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcgggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 153  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 153  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 154

<211> 897

<212> DNA

<213> Homo sapiens

<400> 154

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagcag 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 155

<211> 546

<212> DNA

<213> Homo sapiens

<400> 155

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420



agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 156

<211> 546

<212> DNA

<213> Homo sapiens

<400> 156

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 157  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 157  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggtc 420  
  
agatcaccca gcgcaagtgg gagacggccc atgtggcgga gcagtggaga  
gcctacctgg 480  
  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 158  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 158  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 159

<211> 546

<212> DNA

<213> Homo sapiens

<400> 159

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 160

<211> 897

<212> DNA

<213> Homo sapiens

<400> 160

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttg 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctctg cccaagcccc tcaccctgag  
atgggag 897

<210> 161

<211> 546

<212> DNA

<213> Homo sapiens

<400> 161

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 162

<211> 546

<212> DNA

<213> Homo sapiens

<400> 162

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggtta ctacaaccag agcgaggacg gtactcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 163  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 163  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 164

<211> 897

<212> DNA

<213> Homo sapiens

<400> 164

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgccacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840



tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 165

<211> 897

<212> DNA

<213> Homo sapiens

<400> 165

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggacct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcac cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 166

<211> 897

<212> DNA

<213> Homo sapiens

<400> 166

atggcgcgtca tggcgccccg aaccctcctc ctgctactct tgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcgggtt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcac cgtggataga  
gcaggagggg 240

ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggctgt gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 167

<211> 546

<212> DNA

<213> Homo sapiens

<400> 167

gctcccactc catgaggtat ttcaccacat ccgtgtcccc gcccgccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccg  
gagtattggg 180

acctgcagac acggcatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgagc cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 168  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 168  
gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccgggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcaccgt ggatagagca ggagggggccg  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 169

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 169  
gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc  
gagtattggg 180  
  
acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 170  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 170  
gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc  
gagtattggg 180

acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg  
atgtttggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggaac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 171

<211> 897

<212> DNA

<213> Homo sapiens

<400> 171

atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcg g ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgttgggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 172

<211> 887

<212> DNA

<213> Homo sapiens

<400> 172

atggccgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcg cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg  
gacatggcgg 480

ctcagatcac ccagcgcaag tgggaggcgg cccgtcgggc ggagcagttg  
agagcctacc 540

tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag  
gagacgctgc 600

agcgcacgga ccccccaag acacatatga cccaccaccc catctctgac  
catgaggcca 660

ccctgaggtg ctggggccctg ggcttctacc ctgcggagat cacactgacc  
tggcagcggg 720

atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca  
gggatggaa 780

ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga  
tacacctgcc 840

atgtgcagca tgagggtctg cccaagcccc tcaccctgag atgggag  
887

<210> 173

<211> 767

<212> DNA

<213> Homo sapiens

<400> 173



ggctcccact ccatgaggta tttctccaca tccgtgtccc ggcccggcag  
tgagagagccc 60

cgcttcatcg cagtgggcta cgtggacgac acgcagttcg tgcggttcga  
cagcgacgcc 120

gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggaggggcc  
ggagtattgg 180

gaccaggaga cacggaatgt gaaggccac tcacagactg accgagagaa  
cctggggacc 240

ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat  
aatgtatggc 300

tgcgacgtgg ggtcggacgg gcgcttcctc cgcgggtatg aacagcacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcggct 420

cagatcacc cagcgaagtg ggaggcggcc cgtcgggagg agcagttgag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcacggacc cccccaagac acatatgacc caccaccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg  
ggatggaacc 720

ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagag  
767

<210> 174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 174

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 175

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgacg cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggaac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 176

<211> 546

<212> DNA

<213> Homo sapiens

<400> 176

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 177

<211> 897

<212> DNA

<213> Homo sapiens

<400> 177

atggcgtca tggcgccccg aaccctcctc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctctca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
tgaacagcac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgttgggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 178

<211> 546

<212> DNA

<213> Homo sapiens

<400> 178

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 179

<211> 822

<212> DNA

<213> Homo sapiens

<400> 179

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgcatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacggaccc cccaagaca catatgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccagac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctctgcc aagcccctca ccctgagatg gg  
822

<210> 180

<211> 546

<212> DNA

<213> Homo sapiens

<400> 180

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt  
ggagagcccc 60

gcttcacatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gttgggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 181  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 181  
gctcccactc catgaggtat ttctccacat cctgtgtcccg gcccgggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180  
  
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttgagc cgcggcggac  
atggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcacggaccc cccaagaca catatgaccc accaccccat ctctgacct  
gaggccaccc 600  
  
tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660  
  
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720



tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac  
acctgccatg 780

tgcagcatga gggctctgccc aagcccctca ccctgagatg gg  
822

<210> 182

<211> 897

<212> DNA

<213> Homo sapiens

<400> 182

atggcgcgtca tggcgccccg aaccctcctc ctgctactct tggggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcgggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcaccctgag  
atgggag 897

<210> 183

<211> 546

<212> DNA

<213> Homo sapiens

<400> 183

gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaaagtg aaggcccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 184  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 184  
gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180  
  
accaggagac acggaatgtg aaggcccact cacagattga ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgct  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 185  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 185

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggacct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagagg 240

cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggctgtc gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag  
atgggag 897

<210> 186  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 186  
gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180  
  
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 187  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 187  
gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagggcct  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 188

<211> 546

<212> DNA

<213> Homo sapiens

<400> 188

gctcccactc catgaggtat ttcaccacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagggcct  
gagtattggg 180

accaggagac acggaaagtg aaggcccaact cacagactga ccgagagaaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 189

<211> 546

<212> DNA

<213> Homo sapiens

<400> 189

gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac agggaaagtg aaggcccact cacagactga ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 190  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 190  
gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct  
gagtattggg 180

accaggagac acggaatgtg aagggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546



<210> 191  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 191  
atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggccct  
ggccctgacc 60  
  
cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagag 300  
  
agcctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccatccag 360  
  
atgatgtatg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta  
ccagcaggac 420  
  
gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ctttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 192

<211> 897

<212> DNA

<213> Homo sapiens

<400> 192

atggcgtca tggcgccccg aaccctcctc ctgctactct tgggggcct  
ggcctgacc 60

cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccatgtggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggctct cccaagcccc tcacctgag  
atgggag 897

<210> 193

<211> 546

<212> DNA

<213> Homo sapiens

<400> 193

gctcccactc catgaggtat ttcttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 194  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 194  
gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accaggagac acggaatgtg aaggcccaact cacagactga ccgagagagc  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagata  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480  
  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 195  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 195

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacaggga aa gtgaaggccc actcacagac  
tgaccgagag 300

agcctgcgga tcgcgctccg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 196  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 196  
gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accaggagac acggaatgtg aaggccact cacagactga ccgagagagc  
ctgcgcatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 197  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 197

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttgga cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 198

<211> 897

<212> DNA

<213> Homo sapiens

<400> 198

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggcct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cccccccagg acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag  
atgggag 897

<210> 199

<211> 897

<212> DNA

<213> Homo sapiens

<400> 199

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggcctt  
ggccctgacc 60



cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagat  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcaccctgag  
atgggag 897

<210> 200

<211> 546

<212> DNA

<213> Homo sapiens

<400> 200

gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctga gctcctggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 201

<211> 546

<212> DNA

<213> Homo sapiens

<400> 201

gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagcg ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 202

<211> 739

<212> DNA

<213> Homo sapiens

<400> 202

gctcccactc catgaggtat ttcaccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatggagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacggaccc cccaagacg catatgactc accacgctgt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg  
gatggaacct 720

tccagaagtg ggcgtctgt  
739

<210> 203

<211> 897

<212> DNA

<213> Homo sapiens

<400> 203

atggccatca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaaa gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcggt ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtggt 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acacatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggctgtt gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 204

<211> 897

<212> DNA

<213> Homo sapiens

<400> 204

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 205

<211> 546

<212> DNA

<213> Homo sapiens

<400> 205

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggcgcg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 206

<211> 546

<212> DNA

<213> Homo sapiens

<400> 206

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 207

<211> 546

<212> DNA

<213> Homo sapiens

<400> 207

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaagtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat ctccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420



agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 208

<211> 897

<212> DNA

<213> Homo sapiens

<400> 208

atggcgtca tggcgccccg aaccctcctc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 209

<211> 546

<212> DNA

<213> Homo sapiens

<400> 209

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggcccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 210  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 210  
atggcgtca tggcgccccg aaccctcctc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac  
tgaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
cacctccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc  
ggagcagcgg 540

agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 211

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatatg aaggccact cacagactga ccgagcgaac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga  
gtctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 212  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 212  
atggcctgca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60  
  
cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggacctgca gacacggaat gtgaaggccc actcacagac  
tgaccgagcg 300  
  
aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360  
  
aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420  
  
gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540  
  
agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtgggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 213

<211> 897

<212> DNA

<213> Homo sapiens

<400> 213

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggga ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 214

<211> 897

<212> DNA

<213> Homo sapiens

<400> 214

atggcgcgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc  
ggagcagtgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcaccctgag  
atgggag 897

<210> 215

<211> 546

<212> DNA

<213> Homo sapiens

<400> 215

gctcccactc catgaggtat ttctacacct ccgtgtccccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360



aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 216

<211> 546

<212> DNA

<213> Homo sapiens

<400> 216

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgct  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga  
gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagac acctggagaa cggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 217  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 217  
atggcctgca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60  
  
cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300  
  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360  
  
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420  
  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480  
  
gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660  
  
catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 218

<211> 897

<212> DNA

<213> Homo sapiens

<400> 218

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cttccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 219

<211> 897

<212> DNA

<213> Homo sapiens

<400> 219

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtgggtggc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 220

<211> 897

<212> DNA

<213> Homo sapiens

<400> 220

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cttccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggagc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtgggtggc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag  
atgggag 897

<210> 221

<211> 546

<212> DNA

<213> Homo sapiens

<400> 221

gctctcactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 222

<211> 546

<212> DNA

<213> Homo sapiens

<400> 222

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 223  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 223  
gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546



<210> 224  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 224  
gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300  
  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtatga acagcacgcc  
tacgacggca 360  
  
aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420  
  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcacgg  
546

<210> 225  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 225  
gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcagcacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 226

<211> 897

<212> DNA

<213> Homo sapiens

<400> 226

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 227

<211> 546

<212> DNA

<213> Homo sapiens

<400> 227

gctcccactc catgaggtat ttctacactt ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgga cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 228

<211> 546

<212> DNA

<213> Homo sapiens

<400> 228

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

acgaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 229

<211> 579

<212> DNA

<213> Homo sapiens

<400> 229

accctcgctc tgctactctc gggggccctg gccctgacct agacctgggc  
gggctcccac 60

tccatgaggt atttctacac ttccgtgtcc cggcccggcc gcggggagcc  
ccgcttcac 120

gccgtgggct acgtggacga cacgcagttc gtgcggttcg acagcgacgc  
cgcgagccag 180

aggatggagc cgcgggcgcc gtggatagag caggaggggc cggagtattg  
ggaccggaac 240

acacggaatg tgaaggccca gtcacagact gaccgagtgg acctggggac  
cctgcgcggc 300

tactacaacc agagcgaggc cggttctcac accatccaga tgatgtatgg  
ctgcgacgtg 360

gggtcggacg ggcgcttcct ccgcgggtac cggcaggacg cctacgacgg  
caaggattac 420

atcgccctga aagaggacct gcgctcttgg accgcggcgg acatggcagc  
tcagatcacc 480

aagcacaagt gggaggcggc ccatgtggcg gagcagtgga gagcctacct  
ggagggcacg 540

tgcgtggagt ggctccgcag atacctggag aacgggaag  
579

<210> 230

<211> 866

<212> DNA

<213> Homo sapiens

<400> 230

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggacct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtgggt gtgggtgggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggg  
866

<210> 231

<211> 546

<212> DNA

<213> Homo sapiens

<400> 231

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

acgaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 232  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 232  
gctcccactc catgaggtat ttctacacct ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 233  
<211> 615  
<212> DNA  
<213> Homo sapiens



<400> 233

ccgtcatggc gccccgaacc ctcgtcctgc tactctcggg ggccctggcc  
ctgaccacaga 60

cctggggcggg ctcccactcc atgaggtatt tctacacttc cgtgtcccgg  
cccggccgcg 120

gggagccccg cttcatcgcc gtgggctacg tggacgacac gcagttcgtg  
cgtttcgaca 180

gcgacgccgc gagccagagg atggagccgc gggcgccgtg gatagagcag  
gaggggccgg 240

agtattggga ccggaacaca cggaatgtga aggcccagtc acagactgac  
cgagtggacc 300

tggggaccct gcgcggctac tacaaccaga gcgaggccgg ttctcacacc  
atccagatga 360

tgtatggctg cgacgtgggg tcggacgggc gcttcctccg cgggtaccgg  
caggacgcct 420

acgacggcaa ggattacatc gccctgaaag aggacctgcg ctcttggacc  
gcggcggaca 480

tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag  
cagtggagag 540

cctacctgga gggcacgtgc gtggagtggc tccgcagata cctggagaac  
gggaaggaga 600

cgctgcagcg cacgg  
615

<210> 234

<211> 897

<212> DNA

<213> Homo sapiens

<400> 234

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cttccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggtc 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcggccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctggggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 235

<211> 546

<212> DNA

<213> Homo sapiens

<400> 235

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 236

<211> 546

<212> DNA

<213> Homo sapiens

<400> 236

gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cacttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 237

<211> 546

<212> DNA

<213> Homo sapiens

<400> 237

gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa ccggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 238

<211> 897

<212> DNA

<213> Homo sapiens

<400> 238

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcacgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccacg gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggtggct gtgggtggcgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 239

<211> 546

<212> DNA

<213> Homo sapiens

<400> 239

gctcccactc catgaggtat ttctacactt ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg  
atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc  
tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac  
atggcagctc 420

agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 240

<211> 897

<212> DNA

<213> Homo sapiens

<400> 240

atggcgtca tggcgccccg aaccctcgtc ctgctactct cgggggcccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccgtccag 360

aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta  
ccaccagtac 420

gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc  
tgtctctgac 660

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag  
atgggag 897

<210> 241

<211> 897

<212> DNA

<213> Homo sapiens

<400> 241

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggccct  
ggccctgacc 60

cagaccaggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccagcaggac 420



gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga cgcccccaag acgcatatga ctcaccacgc  
tgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagacccag gacacggagc ttgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtggggcgtct gtggtggtgc cttctggaca  
ggagcagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccaagcccc tcacctgag  
atgggag 897

<210> 242

<211> 619

<212> DNA

<213> Homo sapiens

<400> 242

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggccct  
ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 243

<211> 619

<212> DNA

<213> Homo sapiens

<400> 243

atggccgtca tggcgccccg aaccctcctc ctgctactct tgggggcccct  
ggccctgacc 60

cagaccaggg cgggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt  
cgtgcggttt 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac  
tgaccgagtg 300

gacctggcga ccctgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

atgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccagcaggac 420

gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgg  
619

<210> 244

<211> 547

<212> DNA

<213> Homo sapiens

<400> 244

ggctcccact ccatgaggta tttcttcaca tccgtgtccc ggcccggccg  
cggggagccc 60

cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggtttga  
cagcgacgcc 120

gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggagggctc  
ggagtattgg 180

gacggggaga cacggaaagt gaaggccac tcacagactg accgagtgga  
cctggggacc 240

ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat  
gatgtatggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggtacc agcaggacgc  
ctacgacggc 360

aaggattaca tcgccttgaa cgaggacctg cgctcttgga ccgcggcgga  
catggcggct 420

cagatcaccg agcgcaagtg ggaggcggcc cgtgtggcgg agcagttgag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcacgg  
547

<210> 245  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 245  
gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120  
  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accaggagac acggaatgtg aaggcccact cacaggctga ccgagtggac  
ctggggaccc 240  
  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360  
  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcgggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcacgg  
546

<210> 246  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 246

gctcccactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagactca ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacg  
545

<210> 247

<211> 546

<212> DNA

<213> Homo sapiens

<400> 247

gctcccactc catgaggtat ttctttcacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagattga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 248

<211> 546

<212> DNA

<213> Homo sapiens

<400> 248

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc  
ggggagcccc 60

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggcccaact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggcca gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 249

<211> 546

<212> DNA

<213> Homo sapiens

<400> 249

gctcccactc catgaggtat ttcttcacat ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac  
agcgacgccg 120

cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accaggagac acggaatgtg aaggccact cacagactga ccgagtggac  
ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac  
atggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcacgg  
546

<210> 250  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 250  
atggccgtca tgccgccccg aaccctcctc ctgctactct cgggggcctt  
ggccctgacc 60

cagacctggg caggctccca ctccatgagg tattttcttca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg actcgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga  
gcaggaggag 240

ccggagtatt gggacgagga gacacggaat gtgaaggccc actcacagac  
taaccgagcg 300

aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca  
caccatccag 360

ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta  
ccggcaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg  
gaccgcggcg 480

gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccgtcgggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc  
catctctgac 660

catgaggcca ctctgaggtg ctgggccctg agcttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atggggagga ccagacccag gacacggagc tcgtggagac  
caggcctgca 780

ggggatggaa ccttccagaa gtgggcggct gtggtggtac cttctggaaa  
ggagaagaga 840

tacacctgcc atgtgcagca tgaggggtctg cccgagcccc tcaccctgag  
atgggag 897

<210> 251  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 251  
gccccgcttc atcgcc  
16

<210> 252  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 252  
gaccaggaga cacggaata  
19

<210> 253  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 253  
gcggagcagc ggagagt  
17

<210> 254  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 254  
agtctacctg gagggcc  
17

<210> 255  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 255  
gtctacctgg agggccg  
17

<210> 256  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 256  
aggtgctggg ccctgg  
16

<210> 257  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 257  
ggtggtgcct tctggag  
17

<210> 258  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 258  
caccctgaga tgggagct  
18

<210> 259

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 259  
ccctgagatg ggagctg  
17

<210> 260  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 260  
ggacatggca gctcagatt  
19

<210> 261  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 261  
cactccatga ggtatttctc  
20

<210> 262  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 262  
ccggcccggc agtgga  
16

<210> 263  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 263

ttctcacacc atccagatg  
19

<210> 264  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 264  
ccatgcggcg gagcagt  
17

<210> 265  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 265  
catgcggcgg agcagtt  
17

<210> 266  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 266  
atagagcagg agaggcct  
18

<210> 267  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 267  
ctcacagact gaccgaga  
18

<210> 268  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 268  
ctacaaccag agcgaggc  
18

<210> 269  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 269  
gagtctacct ggagggct  
18

<210> 270  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 270  
gtggacgaca cgcagtta  
18

<210> 271  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 271  
tgctactctc gggggct  
17

<210> 272  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 272  
ggcccactca cagactc  
17

<210> 273  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 273  
ggccggttct cacaccg  
17

<210> 274  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 274  
ttctcacacc gtccagag  
18

<210> 275  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 275  
cgacgtgggg tcggact  
17

<210> 276  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 276  
gggaggcggc ccatgt  
16

<210> 277  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 277  
ccatgtggcg gagcagtt  
18

<210> 278  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 278  
gcctacctgg agggcac  
17

<210> 279  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 279  
gagctgtggt cgctgct  
17

<210> 280  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 280  
agccccgctt catcgca  
17

<210> 281  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 281  
ccggagtatt gggacgg  
17

<210> 282  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 282  
gacggggaga cacggaaa  
18

<210> 283  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 283  
cctccgcggg taccac  
16

<210> 284  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 284  
ccgcgggtac caccagt  
17

<210> 285  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 285  
ggattacatc gccctgaaa  
19

<210> 286  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 286



ggacatggca gctcagac  
18

<210> 287  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 287  
gggcacgtgc gtggagt  
17

<210> 288  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 288  
gcccactcac agactcat  
18

<210> 289  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 289  
tgcgctcttg gaccgca  
17

<210> 290  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 290  
attacatcgc cctgaaagaa  
20

<210> 291  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 291  
ggggtcggac tggcga  
16

<210> 292  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 292  
tcccggcccg gccgt  
15

<210> 293  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 293  
catgtgcagc atgaggggt  
19

<210> 294  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 294  
gaccagaccc aggacaca  
18

<210> 295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 295  
ccatgtggcg gagcagt  
17

<210> 296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 296  
cggactggcg cttcctg  
17

<210> 297  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 297  
ccaagcaca gtgggaga  
18

<210> 298  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 298  
tgggagacgg cccatga  
17

<210> 299  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 299  
ccatgaggcg gagcagt  
17

<210> 300  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 300  
ccatgaggta tttctacacc  
20

<210> 301  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 301  
caccgtccag aggatgtg  
18

<210> 302  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 302  
gtggagacca ggcctga  
17

<210> 303  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 303  
caccgtccag aggatgtt  
18

<210> 304  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 304  
gaaggccac tcacagat  
18

<210> 305  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 305  
catgtggcgg agcagca  
17

<210> 306  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 306  
gggaggcggc ccatga  
16

<210> 307  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 307  
catgaggcgg agcagca  
17

<210> 308  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 308  
gcctacctgg agggcga  
17

<210> 309  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 309

acaccctcca gatgatgtt  
19

<210> 310  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 310  
gaggtgctgg gccctga  
17

<210> 311  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 311  
ggaccgcggc ggacaa  
16

<210> 312  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 312  
cacagactca ccgagtgg  
18

<210> 313  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 313  
cgcggcggac atggcg  
16

<210> 314  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 314  
gtccggagta ttgggacg  
18

<210> 315  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 315  
acggggagac acggaac  
17

<210> 316  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 316  
cagtgggcta cgtggaca  
18

<210> 317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 317  
tgggagacgg cccatgt  
17

<210> 318  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 318  
ccatgaggcg gagcagtt  
18

<210> 319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 319  
agctcagacc accaagca  
18

<210> 320  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 320  
catgcggcgg agcagca  
17

<210> 321  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 321  
cgtggataga gcaggaga  
18

<210> 322  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 322  
gacggggaga cacggc  
16

<210> 323  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 323  
ctgggcgggc tctcag  
16

<210> 324  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 324  
tcgacagcga cgccgg  
16

<210> 325  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 325  
caccgtccag aggatgtc  
18

<210> 326  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 326  
cggaagtga aggcccag  
18

<210> 327  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 327  
ggcccagtca cagactc  
17

<210> 328  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 328  
ggctcagatc accaagca  
18

<210> 329  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 329  
gcggagcagt tgagagc  
17

<210> 330  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 330  
gggcacgtgc gtggag  
16

<210> 331  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 331  
gtgggaggcg gcccg  
15

<210> 332  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 332

gggaggcggc ccgtgt  
16

<210> 333  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 333  
ccgcgggtac cagcagt  
17

<210> 334  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 334  
ggagccccgc ttcattt  
17

<210> 335  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 335  
gaccaggaga cacggaaa  
18

<210> 336  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 336  
attgggacga ggagacag  
18

<210> 337  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 337  
gacgaggaga cagggaaa  
18

<210> 338  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 338  
gaaggcccac tcacagag  
18

<210> 339  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 339  
gaggtatttc ttcacatcca  
20

<210> 340  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 340  
ttcctccgcg ggtatgaa  
18

<210> 341  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 341  
gagtattggg accggaac  
18

<210> 342  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 342  
cggaatgtga aggcccag  
18

<210> 343  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 343  
ggccggttct cacaccc  
17

<210> 344  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 344  
ttctcacacc ctccagag  
18

<210> 345  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 345  
ccggcccggc cgcga  
15

<210> 346  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 346  
cgcggggtacc accagtt  
17

<210> 347  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 347  
cacagactga ccgagtgg  
18

<210> 348  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 348  
gttgagagcc tacctggat  
19

<210> 349  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 349  
catgaggcgg agcagct  
17

<210> 350  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 350  
ctgagagcct acctggat  
18

<210> 351  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 351  
tggatagagc aggagggt  
18

<210> 352  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 352  
cagagagcct acctggat  
18

<210> 353  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 353  
ggcctgggtc tccttgc  
17

<210> 354  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 354  
gagagcctac ctggatgc  
18

<210> 355  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 355

ggctgcgacg tggggt  
16

<210> 356  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 356  
gggccggtgc gtggag  
16

<210> 357  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 357  
ggccggtgcg tggagt  
16

<210> 358  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 358  
gctcttggac cgcggca  
17

<210> 359  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 359  
ggcccggccg cggga  
15

<210> 360  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 360  
gggaggcggc ccgtga  
16

<210> 361  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 361  
cgtgaggcgg agcagca  
17

<210> 362  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 362  
ggcagctcag atcaccg  
17

<210> 363  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 363  
gccggacggg cgctta  
16

<210> 364  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 364  
gcagagagcc tacctgc  
17

<210> 365  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 365  
gccggagtat tgggacct  
18

<210> 366  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 366  
ggcagctcag atcaccag  
18

<210> 367  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 367  
ggaggcggcc cgtcg  
15

<210> 368  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 368  
acgaggagac agggaaag  
18

<210> 369  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 369  
cccagcccac cgtcca  
16

<210> 370  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 370  
ccgtgtggcg gagcagt  
17

<210> 371  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 371  
gcggagcagt ggagagc  
17

<210> 372  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 372  
ggcaaggatt acatcgcct  
19

<210> 373  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 373  
cgtgtggcgg agcagtt  
17

<210> 374  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 374  
ctcccactcc atgaggtg  
18

<210> 375  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 375  
cgctccgcta ctacaacg  
18

<210> 376  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 376  
ctgcggatcg cgctcc  
16

<210> 377  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 377  
gcggagcagc agagagc  
17

<210> 378  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 378

atcttcccag cccaccg  
17

<210> 379  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 379  
ctgggcttct accctgca  
18

<210> 380  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 380  
cgcggtacc accagtat  
18

<210> 381  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 381  
agacgctgca gcgcact  
17

<210> 382  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 382  
ggcggctcag atcacc  
17

<210> 383  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 383  
gggaaagtga aggcccag  
18

<210> 384  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 384  
cctgggcagg ctcccaa  
17

<210> 385  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 385  
gggcacgtgc gtggact  
17

<210> 386  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 386  
gacgggcgct tcctcca  
17

<210> 387  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 387  
ggaccgcggc ggacag  
16

<210> 388  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 388  
cggagtattg ggacgagc  
18

<210> 389  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 389  
acagactgac cgagagag  
18

<210> 390  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 390  
ccagaggatg gagccgt  
17

<210> 391  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 391  
gagccagagg atggagct  
18

<210> 392  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 392  
gctcccactc catgagc  
17

<210> 393  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 393  
gcctgcaggg gatggg  
16

<210> 394  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 394  
ccagcgcaag tgggaga  
17

<210> 395  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 395  
ccgcgggtac cagcaga  
17

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
gcctacctgg agggcct  
17



<210> 397  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 397  
tccgcgggta ccagcg  
16

<210> 398  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 398  
ttcctccgcg ggtacca  
17

<210> 399  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 399  
ggtaccagca ggacgct  
17

<210> 400  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 400  
cgcagttcgt gcggttg  
17

<210> 401  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 401

ccagagcgag gacggta  
17

<210> 402  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 402  
cagatgatgt atggctgcc  
19

<210> 403  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 403  
gatggagccg cgggca  
16

<210> 404  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 404  
ggacctgcag acacggc  
17

<210> 405  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 405  
gagacgctgc agcgcg  
16

<210> 406  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 406  
tgggaggcgg cccgtt  
16

<210> 407  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 407  
gggaggcggc ccgtc  
15

<210> 408  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 408  
gggctacgtg gacgacg  
17

<210> 409  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 409  
cacaccatcc agataatgc  
19

<210> 410  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 410  
gtgcagcatg agggtctc  
18

<210> 411  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 411  
ggtaccggca ggacgct  
17

<210> 412  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 412  
ccactccatg aggtatttca  
20

<210> 413  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 413  
gacacggaat gtgaagg  
18

<210> 414  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 414  
cctagttctc tttggagcta  
20

<210> 415  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 415  
ggccggacgg gcgcc  
15

<210> 416  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 416  
gcctacctgg atggcac  
17

<210> 417  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 417  
tggcacgtgc gtggagt  
17

<210> 418  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 418  
gaccaggaga caggga  
18

<210> 419  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 419  
gcacggaccc cccag  
16

<210> 420  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 420  
acgaggacct gagctcc  
17

<210> 421  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 421  
gcgccgtgga tagagcg  
17

<210> 422  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 422  
gcggggcgccg tggatg  
16

<210> 423  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 423  
cccatcgtg ggcattc  
17

<210> 424  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 424

ctgcagcgca cggacg  
16

<210> 425  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 425  
ggacgcccc aagacg  
16

<210> 426  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 426  
ctcttttgag ctgtgatcg  
19

<210> 427  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 427  
gacggcaagg attacatct  
19

<210> 428  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 428  
gtctacctgg agggcac  
17

<210> 429  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 429  
cggagagcct acctggat  
18

<210> 430  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 430  
ggacggttct cacaccc  
17

<210> 431  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 431  
gggcgagtgc gtggagt  
17

<210> 432  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 432  
ggagtggctc cgcagac  
17

<210> 433  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 433  
gaaccttcca gaagtgggt  
19



<210> 434  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 434  
ccatgaggta tttctacact  
20

<210> 435  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 435  
gaggtatttc tacacctcca  
20

<210> 436  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 436  
cgcggtacc ggcagc  
16

<210> 437  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 437  
catgtggcgg agcagct  
17

<210> 438  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 438  
gccggagtat tgggacg  
17

<210> 439  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 439  
agtgggaggc ggccct  
16

<210> 440  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 440  
gcgggtaccg gcaggt  
16

<210> 441  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 441  
tggagagcct acctggat  
18

<210> 442  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 442  
tggggtcgga cgggca  
16

<210> 443  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 443  
gcagatacct ggagaacc  
18

<210> 444  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 444  
gacctgggga ccctgca  
17

<210> 445  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 445  
gttctcacac catccagag  
19

<210> 446  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 446  
ggccctgacc cagacca  
17

<210> 447  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 447

cctcctcctg ctactctt  
18

<210> 448  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 448  
ctcctccgcg ggtacca  
17

<210> 449  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 449  
gaccgagtgg acctggc  
17

<210> 450  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 450  
gaaggccac tcacagg  
17

<210> 451  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 451  
cacagattga ccgagtgg  
18

<210> 452  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 452  
caagtgggag gcggcca  
17

<210> 453  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 453  
cttcacatcc gtgtcccc  
18

<210> 454  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 454  
cagcccacca tccccatt  
18

<210> 455  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 455  
cttcatcgcc gtgggcta  
18

<210> 456  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 456  
acacggaata tgaaggccc  
19

<210> 457  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 457  
gcggagagtc tacctgg  
17

<210> 458  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 458  
ggagggccgg tgcgtg  
16

<210> 459  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 459  
ggagggccgg tgcgtg  
16

<210> 460  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 460  
gggccctggg cttctac  
17

<210> 461  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 461  
gtggtggtgc cttctgg  
17

<210> 462  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 462  
ccttctggag aggagcag  
18

<210> 463  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 463  
agctcagatt accaagcgc  
19

<210> 464  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 464  
ggtattttctc cacatccgt  
19

<210> 465  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 465  
ggcagtggag agcccc  
16

<210> 466  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 466  
catccagatg atgtatggc  
19

<210> 467  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 467  
cggagcagtt gagagcc  
17

<210> 468  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 468  
cggagcagtt gagagcct  
18

<210> 469  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 469  
ggagaggcct gagtattg  
18

<210> 470  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 470



ctgaccgaga gaacctgg  
18

<210> 471  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 471  
gagcgaggcc ggttctc  
17

<210> 472  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 472  
ggagggctgg tgcgtg  
16

<210> 473  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 473  
cacgcagtta gtgcggtt  
18

<210> 474  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 474  
tcgggggctc tggccc  
16

<210> 475  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 475  
gacacggaaa gtgaaggc  
18

<210> 476  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 476  
tcacagactc accgagtg  
18

<210> 477  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 477  
ctcacaccgt ccagagg  
17

<210> 478  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 478  
ccgtccagag gatgtatg  
18

<210> 479  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 479  
ggtcggactg gcgcttc  
17

<210> 480  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 480  
ggcccatgtg gcggag  
16

<210> 481  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 481  
ggagggcacg tgcgtg  
16

<210> 482  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 482  
catgagggtt tgcccaag  
18

<210> 483  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 483  
cttcatcgca gtgggcta  
18

<210> 484  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 484  
ttgggacggg gagacac  
17

<210> 485  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 485  
gggtaccacc agtacgc  
17

<210> 486  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 486  
taccaccagt acgcctac  
18

<210> 487  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 487  
cgccctgaaa gaggacct  
18

<210> 488  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 488  
cagctcagac caccaagc  
18

<210> 489  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 489  
cgtggagtgg ctccgc  
16

<210> 490  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 490  
acagactcat cgagtggac  
19

<210> 491  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 491  
tggaccgcag cggacat  
17

<210> 492  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 492  
cctgaaagaa gacctgcg  
18

<210> 493  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 493

gactggcgat tcctccg  
17

<210> 494  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 494  
cccggccgtg gggag  
15

<210> 495  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 495  
ccaggacaca gagctcgt  
18

<210> 496  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 496  
cgcttcctgc gcgggt  
16

<210> 497  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 497  
agtgggagac ggcccat  
17

<210> 498  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 498  
ggcccatgag gcggag  
16

<210> 499  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 499  
cggagcagtg gagagcc  
17

<210> 500  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 500  
tctcacaccg tccagatg  
18

<210> 501  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 501  
tttctacacc tccgtgtcc  
19

<210> 502  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 502  
gaggatgtgt ggctgcg  
17

<210> 503  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 503  
caggcctgaa ggggatg  
17

<210> 504  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 504  
ccgtccagag gatgtttg  
18

<210> 505  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 505  
agaggatggt tggctgcg  
18

<210> 506  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 506  
actcacagat tgaccgagt  
19

<210> 507  
<211> 17  
<212> DNA  
<213> Homo sapiens



<400> 507  
ggagcagcag agagcct  
17

<210> 508  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 508  
ggagggcgag tgcgtg  
16

<210> 509  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 509  
gtcatggctc cccgaac  
17

<210> 510  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 510  
agatgatggt tggctgcga  
19

<210> 511  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 511  
gggccctgag cttctac  
17

<210> 512  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 512  
ggcggacaag gcagctc  
17

<210> 513  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 513  
ccgagtggac ctgggg  
16

<210> 514  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 514  
ggacatggcg gctcagat  
18

<210> 515  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 515  
tattgggacg gggagaca  
18

<210> 516  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 516

gacacggaac gtgaaggc  
18

<210> 517  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 517  
tacgtggaca acacgcag  
18

<210> 518  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 518  
ccaccaagca caagtggg  
18

<210> 519  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 519  
agcaggagag tccggag  
17

<210> 520  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 520  
gagacacggc aagtgaag  
18

<210> 521  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 521  
gggctctcag tccatgag  
18

<210> 522  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 522  
cgacgccggg agccag  
16

<210> 523  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 523  
gaggatgtct ggctgcg  
17

<210> 524  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 524  
gaaggcccag tcacagac  
18

<210> 525  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 525  
tcaccaagca caagtggg  
18

<210> 526  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 526  
agttgagagc ctacctgg  
18

<210> 527  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 527  
tgcgtggagt ggctccg  
17

<210> 528  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 528  
gcggcccgtg tggcg  
15

<210> 529  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 529  
ggcccgtgtg gcggag  
16

<210> 530  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 530  
taccagcagt acgcctac  
18

<210> 531  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 531  
cgcttcatct cagtgggc  
18

<210> 532  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 532  
gaggagacag ggaaagtg  
18

<210> 533  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 533  
gacagggaaa gtgaaggc  
18

<210> 534  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 534  
actcacagag tcaccgag  
18

<210> 535  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 535  
ttcacatcca tgtcccgg  
18

<210> 536  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 536  
cgggtatgaa cagcacgc  
18

<210> 537  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 537  
ggaccggaac acacggaa  
18

<210> 538  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 538  
tctcacaccc tccagatg  
18

<210> 539  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 539

ctcacaccct ccagagg  
17

<210> 540  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 540  
ccctccagag gatgtatg  
18

<210> 541  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 541  
ggccgcgagg agccc  
15

<210> 542  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 542  
ccaccagttc gcctacg  
17

<210> 543  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 543  
ctacctggat ggcacgtg  
18

<210> 544  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 544  
ggagcagctg agagcct  
17

<210> 545  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 545  
caggagggtc cggagta  
17

<210> 546  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 546  
ctggagaacc ggaaggag  
18

<210> 547  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 547  
cctggatgcc acgtgcg  
17

<210> 548  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 548  
cgtgggggtcg gacggg  
16

<210> 549  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 549  
accgcggcag acatggc  
17

<210> 550  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 550  
ccgcgggaag ccccg  
15

<210> 551  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 551  
gcggcccgtg aggcg  
15

<210> 552  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 552  
ggcccgtgag gcggag  
16

<210> 553  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 553  
cagatcaccg agcgcaag  
18

<210> 554  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 554  
gggcgcttac tccgcg  
16

<210> 555  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 555  
ctacctgcag ggccgg  
16

<210> 556  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 556  
attgggacct gcagacac  
18

<210> 557  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 557  
agatcaccag gcgcaagt  
18

<210> 558  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 558  
gcccgtcggg cggag  
15

<210> 559  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 559  
acagggaag tgaaggcc  
18

<210> 560  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 560  
gaagtgggca gctgtggt  
18

<210> 561  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 561  
gtggagagcc tacctgg  
17

<210> 562  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 562

tacatcgcct tgaacgagg  
19

<210> 563  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 563  
ccatgaggtg tttctccac  
19

<210> 564  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 564  
tactacaacg agagcgagg  
19

<210> 565  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 565  
tcgcgctccg ctactac  
17

<210> 566  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 566  
gcagagagcc tacctgg  
17

<210> 567  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 567  
ctaccctgca gagatcac  
18

<210> 568  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 568  
ccaccagtat gcctacga  
18

<210> 569  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 569  
cagatcaccc agcgcaag  
18

<210> 570  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 570  
aggctcccaa tccatgag  
18

<210> 571  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 571  
tgtggtggta cttctgg  
18

<210> 572  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 572  
cggagcagtg gagagtc  
17

<210> 573  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 573  
cgtggactgg ctccgc  
16

<210> 574  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 574  
cttcctccac gggtacc  
17

<210> 575  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 575  
ggcggacagg gcggct  
16

<210> 576  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 576  
tcacagactc accgagag  
18

<210> 577  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 577  
gggacgagca gacaggg  
17

<210> 578  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 578  
ccgagagagc ctgcgg  
16

<210> 579  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 579  
actcacagat tgaccgaga  
19

<210> 580  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 580  
ggagccgtgg gcgcc  
15



<210> 581  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 581  
gatggagctg cgggcg  
16

<210> 582  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 582  
ctccatgagc tatttctcc  
19

<210> 583  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 583  
ggggatggga ccttcca  
17

<210> 584  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 584  
ccttctggac aggagcag  
18

<210> 585  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 585

taccagcaga acgcttacg  
19

<210> 586  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 586  
ggagggcctg tgcgtg  
16

<210> 587  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 587  
gtaccagcgg gacgctt  
17

<210> 588  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 588  
cgggtaccag caggacg  
17

<210> 589  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 589  
caggacgctt acgacgg  
17

<210> 590  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 590  
gtgcggttg acagcga  
17

<210> 591  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 591  
gaggacggta ctcacacc  
18

<210> 592  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 592  
tggctgccac gtgggg  
16

<210> 593  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 593  
ccgcgggcac cgtgg  
15

<210> 594  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 594  
cagacacggc atgtgaag  
18

<210> 595  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 595  
ggcccgttgg gcggag  
16

<210> 596  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 596  
ggcccgtcgg gcgga  
15

<210> 597  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 597  
tggacgacgc gcagttc  
17

<210> 598  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 598  
cagataatgc atggctgcg  
19

<210> 599  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 599  
gaggggtctcc ccaagcc  
17

<210> 600  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 600  
aggtatttca ccacatccg  
19

<210> 601  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 601  
atgtgaaggg ccactcac  
18

<210> 602  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 602  
cacggagctt gtggagac  
18

<210> 603  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 603  
cgggcgctc ctccg  
15

<210> 604  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 604  
ggatggcacg tgcgtgg  
17

<210> 605  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 605  
cccccccagg acgcat  
16

<210> 606  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 606  
ctgagctcct ggaccgc  
17

<210> 607  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 607  
gatagagcgg gaggggc  
17

<210> 608  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 608

ccgtggatgg agcagga  
17

<210> 609  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 609  
cacggacgcc cccaag  
16

<210> 610  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 610  
agtgggcgtc tgtggtg  
17

<210> 611  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 611  
ccccaagacg catatgac  
18

<210> 612  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 612  
gcaggagagg ccggag  
16

<210> 613  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 613  
gattacatct ccctgaacg  
19

<210> 614  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 614  
tccgcagaca cctggag  
17

<210> 615  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 615  
gaagtgggtg gctgtgg  
17

<210> 616  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 616  
tttctacact tccgtgtcc  
19

<210> 617  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 617  
acacctccat gtcccgg  
17



<210> 618  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 618  
ccggcagcac gcctac  
16

<210> 619  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 619  
tattgggacg aggagacac  
19

<210> 620  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 620  
ggcggccctt gtggcg  
16

<210> 621  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 621  
ccggcaggtc gcctac  
16

<210> 622  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 622  
ggacgggcac ttcctcc  
17

<210> 623  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 623  
gaccctgcac ggctact  
17

<210> 624  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 624  
ccatccagag gatgtatgg  
19

<210> 625  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 625  
ccagaccagg gcgggc  
16

<210> 626  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 626  
gctactcttg ggggccc  
17

<210> 627  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 627  
ggacctggcg accctg  
16

<210> 628  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 628  
cactcacagg ctgaccga  
18

<210> 629  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 629  
ggcggccagt gtggcg  
16

<210> 630  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 630  
gtgtccccgc ccggc  
15

<210> 631  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 631

tctgcccgag cccctc  
16

<210> 632  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 632  
cccattctcag ggtgaggggc t  
21

<210> 633  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 633  
gcgctgcagc gtctccttcc  
20

<210> 634  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 634  
gcccaggtct gggtcagggc cag  
23

<210> 635  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 635  
atggctcccc gaaccctc  
18

<210> 636  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 636  
atggcgcccc gaaccctc  
18

<210> 637  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 637  
catctcaggg tgaggggct  
19

<210> 638  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 638  
aggtatttct acacctccg  
19

<210> 639  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 639  
ctcacaccct ccagagc  
17

<210> 640  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 640  
gcctcctccg cgggc  
15

<210> 641  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 641  
ccgcgggcat gaccagt  
17

<210> 642  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 642  
gtgaggcggg gcagcg  
16

<210> 643  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 643  
tgaggcggag cagcgg  
16

<210> 644  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 644  
gcctacctgg agggcga  
17

<210> 645  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 645  
ggcgagtgcg tggagtg  
17

<210> 646  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 646  
cgggaaggac aagctgg  
17

<210> 647  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 647  
ggagtggctc cgcagg  
16

<210> 648  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 648  
gctacgtgga cgacacg  
17

<210> 649  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 649  
acagatctac aagaccaaca  
20

<210> 650  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 650  
gtgaggcgga gcaggac  
17

<210> 651  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 651  
cctcctccgc gggcata  
17

<210> 652  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 652  
cgtcttccca gtccacca  
18

<210> 653  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 653  
ctcacaccct ccagagg  
17

<210> 654  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 654



accggaacac acagatctt  
19

<210> 655  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 655  
acagatcttc aagaccaaca  
20

<210> 656  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 656  
cgcgggcatg accagtc  
17

<210> 657  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 657  
ccggaacaca cagatctg  
18

<210> 658  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 658  
cacagactga ccgagagaa  
19

<210> 659  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 659  
ggccgggtct cacatca  
17

<210> 660  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 660  
acatcatcca gaggatgtat  
20

<210> 661  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 661  
ggatgtatgg ctgcgacc  
18

<210> 662  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 662  
ctgcgacctg gggccc  
16

<210> 663  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 663  
agacacagaa gtacaagcg  
19

<210> 664  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 664  
caagcgccag gcacagg  
17

<210> 665  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 665  
gcacaggctg accgagt  
17

<210> 666  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 666  
gaggccgggt ctcacat  
17

<210> 667  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 667  
gtctcacatc atccagagg  
19

<210> 668  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 668  
cgcctcctcc gcgggt  
16

<210> 669  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 669  
caaggcccag gcacagg  
17

<210> 670  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 670  
caagaccaac acacagactt  
20

<210> 671  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 671  
cgcggggtatg accagtc  
17

<210> 672  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 672  
gcctacctgg agggcac  
17

<210> 673  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 673  
ctggagaacg ggaaggag  
18

<210> 674  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 674  
gacgctggag cgcgcg  
16

<210> 675  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 675  
gcctacctgg agggcct  
17

<210> 676  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 676  
ggcctgtgcg tggagtc  
17

<210> 677  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 677

cggccgcggg gagct  
15

<210> 678  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 678  
tcctggaccg ccgcga  
16

<210> 679  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 679  
cggaacctgc gcggcc  
16

<210> 680  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 680  
gcctacctgg agggcc  
16

<210> 681  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 681  
gggaggcggc ccgtgt  
16

<210> 682  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 682  
gtgtggcgga gcaggac  
17

<210> 683  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 683  
cgtgaggcgg agcagct  
17

<210> 684  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 684  
ccggaacaca cagatctc  
18

<210> 685  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 685  
cacagactta ccgagagg  
18

<210> 686  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 686  
ctgcggaccc tgctcc  
16

<210> 687  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 687  
ccgcgggtat gaccagg  
17

<210> 688  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 688  
cactccatga ggtatttcg  
19

<210> 689  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 689  
ggtatttcga caccgcca  
18

<210> 690  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 690  
cgagagagga gccgcc  
16

<210> 691  
<211> 17  
<212> DNA  
<213> Homo sapiens



<400> 691  
agcctacctg gagggca  
17

<210> 692  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 692  
gatgtgtagg aggaagagc  
19

<210> 693  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 693  
ctgcgcaccg cgctcc  
16

<210> 694  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 694  
ccgagagaac ctgcggat  
18

<210> 695  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 695  
gagaacctgc ggatcgc  
17

<210> 696  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 696  
ctgcggatcg cgctcc  
16

<210> 697  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 697  
cacgctggag cgcgcg  
16

<210> 698  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 698  
ggaccggaac acacaac  
17

<210> 699  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 699  
cacttggcag acgatgtat  
19

<210> 700  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 700

ggagtattgg gaccggg  
17

<210> 701  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 701  
ccgggacaca cagatctt  
18

<210> 702  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 702  
cgtgtggcgg agcagct  
17

<210> 703  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 703  
cgcggtacc accagg  
16

<210> 704  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 704  
cacacagact gaccgagt  
18

<210> 705  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 705  
ttcaagacca acacacagg  
19

<210> 706  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 706  
ccgggagaca cagatctc  
18

<210> 707  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 707  
gtgctgggcc ctgggc  
16

<210> 708  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 708  
ggctcagatc acccagct  
18

<210> 709  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 709  
gtctcacact tggcagac  
18

<210> 710  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 710  
cgcgggcata accagtta  
18

<210> 711  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 711  
cgatgtatgg ctgcgacc  
18

<210> 712  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 712  
tgggagccat cttcccaa  
18

<210> 713  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 713  
gagcagctga gaggctg  
17

<210> 714  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 714  
ggtctcacac cctccat  
17

<210> 715  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 715  
ccagaccagc aggagac  
17

<210> 716  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 716  
ccctgagatg ggagcca  
17

<210> 717  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 717  
catgaggtat ttctacaccg  
20

<210> 718  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 718  
ctcccactcc atgaggc  
17

<210> 719  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 719  
gcaggagggg ccggaa  
16

<210> 720  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 720  
ggagtggctc cgcagac  
17

<210> 721  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 721  
gacgctgcag cgcgcg  
16

<210> 722  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 722  
caccctccag aggatgtat  
19

<210> 723  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 723

tcctgctgct ctcggga  
17

<210> 724  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 724  
gcgccccggg cgcca  
15

<210> 725  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 725  
gagtattggg accgggag  
18

<210> 726  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 726  
ccgtgaggcg gagcagt  
17

<210> 727  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 727  
gaccaaactc aggacacc  
18

<210> 728  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 728  
ccgcctacga cggcaaa  
17

<210> 729  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 729  
gagctcctgg accgcg  
16

<210> 730  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 730  
ggattacatc gccctgaat  
19

<210> 731  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 731  
cgacacgcag ttcgtgc  
17

<210> 732  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 732  
cagatctcca agaccaaca  
19

<210> 733  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 733  
cggagctgtg gtcgcta  
17

<210> 734  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 734  
caccctccag aggatgtt  
18

<210> 735  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 735  
tacgcctacg acggcaaa  
18

<210> 736  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 736  
cagatctgca agaccaaca  
19

<210> 737  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 737  
cgagtccgag gatggct  
17

<210> 738  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 738  
gggcctgtgc gtggac  
16

<210> 739  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 739  
gggccggctc ccactt  
16

<210> 740  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 740  
acatgaaggc ctccgcg  
17

<210> 741  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 741  
gcagctgtgg tggtgct  
17

<210> 742  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 742  
gtgacccacc accccg  
16

<210> 743  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 743  
gtattgggac cgggagat  
18

<210> 744  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 744  
gcgagtccga ggatggc  
17

<210> 745  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 745  
caccctccag aggatgtc  
18

<210> 746  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 746

ggaccgccgc ggacaa  
16

<210> 747  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 747  
gatgtacggc tgcgacc  
17

<210> 748  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 748  
gtctcacacc ctccagac  
18

<210> 749  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 749  
ctcacaccct ccagacg  
17

<210> 750  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 750  
accgagagaa cctgcgc  
17

<210> 751  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 751  
cgggaaggag acgctgc  
17

<210> 752  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 752  
ccctgaacga ggacctga  
18

<210> 753  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 753  
ggagccccgc ttcacgc  
17

<210> 754  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 754  
aggtatttct acaccgcca  
19

<210> 755  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 755  
tccgaggatg gcgccc  
16

<210> 756  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 756  
gttcgacagc gacgcca  
17

<210> 757  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 757  
gagccgcggg cgcca  
15

<210> 758  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 758  
ggcggagcag ctgagaa  
17

<210> 759  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 759  
aacctacctg gagggcc  
17

<210> 760  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 760  
acctacctgg agggcct  
17

<210> 761  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 761  
ctccaagacc aacacacg  
18

<210> 762  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 762  
ctacgtggac gacacgct  
18

<210> 763  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 763  
ccgggagaca cagatctt  
18

<210> 764  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 764  
acacacagac ttaccgagt  
19



<210> 765  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 765  
cacagactta ccgagtga  
19

<210> 766  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 766  
ccgcgggcat aaccagtt  
18

<210> 767  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 767  
cccagtttcgt gaggttca  
18

<210> 768  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 768  
ccgggagaca cagatctg  
18

<210> 769  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 769

ggctcagatc acccagca  
18

<210> 770  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 770  
acctacctgg agggcac  
17

<210> 771  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 771  
cactccatga ggtatttcc  
19

<210> 772  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 772  
gaccccccaa agacacat  
18

<210> 773  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 773  
gagacacaga tctccaagat  
20

<210> 774  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 774  
gggaggcggc ccgtc  
15

<210> 775  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 775  
gcgccgtgga tagagcaa  
18

<210> 776  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 776  
gaccaacaca cagacttaca  
20

<210> 777  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 777  
acaccctcca gaatatgtat  
20

<210> 778  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 778  
ggagccccgc ttcattg  
17

<210> 779  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 779  
ggattacatc gccctgaag  
19

<210> 780  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 780  
caccctccag aggatgtg  
18

<210> 781  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 781  
gcgccgtgga tagagcaa  
18

<210> 782  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 782  
cgagagaacc tgcgcac  
17

<210> 783  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 783  
gagaacctgc gcaccgc  
17

<210> 784  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 784  
gtctcacacc ctccagaat  
19

<210> 785  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 785  
caggaggggc cggagc  
16

<210> 786  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 786  
ctgggcttct accctgg  
17

<210> 787  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 787  
cacagactga ccgagagg  
18

<210> 788  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 788  
cgccgcggac acggca  
16

<210> 789  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 789  
ctgctctggg gggcag  
16

<210> 790  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 790  
ccagagcgag gccggt  
16

<210> 791  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 791  
ctccgtgtcc cggcct  
16

<210> 792  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 792

cgcggggtacc accagc  
16

<210> 793  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 793  
tgaccgagac ctgggct  
17

<210> 794  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 794  
caggaggggc cggagtt  
17

<210> 795  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 795  
cgagagagcc tgcggac  
17

<210> 796  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 796  
cacggcggct cagatct  
17

<210> 797  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 797  
cggagcagct gagagct  
17

<210> 798  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 798  
ggcccgcgacgg gcgct  
15

<210> 799  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 799  
cgcgggcatg accagtt  
17

<210> 800  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 800  
ccatgtcccgc gcccg  
16

<210> 801  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 801  
gaccgcggcg gacacc  
16



<210> 802  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 802  
ctgcgacgtg gggccc  
16

<210> 803  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 803  
tccgaggacg gagccc  
16

<210> 804  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 804  
gagccccggg cgcca  
15

<210> 805  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 805  
ccgcgagtcc gaggac  
16

<210> 806  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 806  
cacatcatcc agaggatggt  
20

<210> 807  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 807  
cacagactta ccgagagaa  
19

<210> 808  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 808  
catgtacggc tgcgacc  
17

<210> 809  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 809  
ctgcggaacc tgcgcga  
17

<210> 810  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 810  
catgaccagt ccgcctg  
17

<210> 811  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 811  
caccatccag aggatgtc  
18

<210> 812  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 812  
gacctgagct cctggaca  
18

<210> 813  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 813  
cgagagagcc tgcgcac  
17

<210> 814  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 814  
gcaggagggg ccggg  
15

<210> 815  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 815

gaacctacct ggagggca  
18

<210> 816  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 816  
aacctacctg gagggcat  
18

<210> 817  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 817  
ctggaccgcg gcggag  
16

<210> 818  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 818  
tagagcagga ggggcca  
17

<210> 819  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 819  
tctcacactt ggcagacg  
18

<210> 820  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 820  
ggcggagcag cggagaa  
17

<210> 821  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 821  
cggcccggcc gcgga  
15

<210> 822  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 822  
ggtctcacac cctccac  
17

<210> 823  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 823  
ccgcgggtat aaccagtta  
19

<210> 824  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 824  
ggcggagcag tggagaa  
17

<210> 825  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 825  
gaatattggg accgggag  
18

<210> 826  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 826  
gcggctcaga tcacccg  
17

<210> 827  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 827  
cacaccctcc agagcac  
17

<210> 828  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 828  
agtgggaggc ggccct  
16

<210> 829  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 829  
gaccgagacc tgggcg  
16

<210> 830  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 830  
cgccacgagt ccgagga  
17

<210> 831  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 831  
gatctcccag cgcaagtt  
18

<210> 832  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 832  
tggaggcggc ccgtgt  
16

<210> 833  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 833  
tgaccgagac ctgggct  
17

<210> 834  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 834  
gcgctcctgg accgcg  
16

<210> 835  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 835  
agggcgagtg cgtggat  
17

<210> 836  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 836  
ggtattttcca caccgcca  
18

<210> 837  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 837  
ccgcgggcat aaccaga  
17

<210> 838  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 838



ccggagtatt gggaccc  
17

<210> 839  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 839  
ggtctcacat catccagg  
18

<210> 840  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 840  
cgcctacgac ggcaaga  
17

<210> 841  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 841  
cgcgggcata accagtc  
17

<210> 842  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 842  
ccgggtctca cacttgg  
17

<210> 843  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 843  
cacttggcag aggatgtat  
19

<210> 844  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 844  
gagagagcct gcggaag  
17

<210> 845  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 845  
cggaaggac acgctgc  
17

<210> 846  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 846  
cacgctgcag cgcgcg  
16

<210> 847  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 847  
ccatctctga ccatgaggt  
19

<210> 848  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 848  
cgggagacac agatctcg  
18

<210> 849  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 849  
ggaggcggcc cgtgtc  
16

<210> 850  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 850  
agagaacctg cgcaccg  
17

<210> 851  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 851  
gggagccccg cttcatt  
17

<210> 852  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 852  
ctgcgcaccc cgctcc  
16

<210> 853  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 853  
ggccggagta ttgggag  
17

<210> 854  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 854  
ccgcgggcat aaccagg  
17

<210> 855  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 855  
ggcgagtgcg tggagtc  
17

<210> 856  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 856  
cgggcgccgt gggtg  
15

<210> 857  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 857  
gagagaacct gcggatcg  
18

<210> 858  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 858  
gtggacgaca cgctgttg  
18

<210> 859  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 859  
tggagggcct gtgcgc  
16

<210> 860  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 860  
gacggcaagg attacatca  
19

<210> 861  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 861

ccgcgggtat aaccagtt  
18

<210> 862  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 862  
ctccgcgggt ataaccg  
17

<210> 863  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 863  
gcggagcagg acagagt  
17

<210> 864  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 864  
gagacacaga agtacaagc  
19

<210> 865  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 865  
cgccaggcac agactgg  
17

<210> 866  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 866  
tgtggtcgct gctgtgg  
17

<210> 867  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 867  
cctgcggaac ctgctcc  
17

<210> 868  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 868  
agaaccttcc agaagtgga  
19

<210> 869  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 869  
agccccgctt catctcc  
17

<210> 870  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 870  
ccgcgggtat aaccagtta  
19

<210> 871  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 871  
ggcctgtgcg tggagg  
16

<210> 872  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 872  
cggatcgcg tccgcg  
16

<210> 873  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 873  
ttcgcctacg acggcaaa  
18

<210> 874  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 874  
ctcctccgcg ggcataaa  
18

<210> 875  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 875  
gcgtctcctc cgcggt  
16

<210> 876  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 876  
cgggcgcctc ctccc  
15

<210> 877  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 877  
gagtccgagg acggaga  
17

<210> 878  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 878  
atagagcagg aggggacg  
17

<210> 879  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 879  
ccagaccagc aggagatg  
18

<210> 880  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 880  
cagcatgagg ggctgct  
17

<210> 881  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 881  
cagacttacc gagagaact  
19

<210> 882  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 882  
gcgacgccgc gagtca  
16

<210> 883  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 883  
ccgcggggag ccccc  
15

<210> 884  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 884

cgagagagcc tgcggat  
17

<210> 885  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 885  
gagagcctgc ggatcgc  
17

<210> 886  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 886  
ggcacagact gaccgagt  
18

<210> 887  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 887  
gaccgccgcg gacacc  
16

<210> 888  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 888  
gcaggagggg ccggc  
15

<210> 889  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 889  
ccgcgagtcc gagagg  
16

<210> 890  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 890  
ggtctcacac ttggcagat  
19

<210> 891  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 891  
acggcacccc gaaccc  
16

<210> 892  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 892  
ctcctcctgc tgctctg  
17

<210> 893  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 893  
agacacagaa gtacaagg  
19

<210> 894  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 894  
ggtctcacat catccaggt  
19

<210> 895  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 895  
gcgggcatga ccagtct  
17

<210> 896  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 896  
gaccgcggcg gacaca  
16

<210> 897  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 897  
gccggagtat tgggacg  
17

<210> 898  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 898  
cctcctccgc gggata  
17

<210> 899  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 899  
cacggcggct cagatcat  
18

<210> 900  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 900  
tgcggatcgc gctccc  
16

<210> 901  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 901  
gccggagtat tgggacga  
18

<210> 902  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 902  
ggaggcggcc cgtgc  
15

<210> 903  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 903  
cgacgccgcg agtcca  
16

<210> 904  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 904  
gtcacccgtag ctgtgggc  
18

<210> 905  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 905  
gtgtaggagg aagagttct  
19

<210> 906  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 906  
cagagcctac ctggagga  
18

<210> 907  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 907

gtcatcggag ctgtggtt  
18

<210> 908  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 908  
cacctccgtg tcccgg  
16

<210> 909  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 909  
cctccagagc atgtacgg  
18

<210> 910  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 910  
ccgcgggcat gaccag  
16

<210> 911  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 911  
catgaccagt acgcctac  
18

<210> 912  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 912  
ggagcagcgg agagcc  
16

<210> 913  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 913  
gagcagcggg gagccta  
17

<210> 914  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 914  
ggagggcgag tgcgtg  
16

<210> 915  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 915  
cgtggagtgg ctccgc  
16

<210> 916  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 916  
acaagctgga ggcgcgt  
17

<210> 917  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 917  
ctccgcaggt acctgga  
17

<210> 918  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 918  
ggacgacacg cagttcgt  
18

<210> 919  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 919  
aagaccaaca cacagactg  
19

<210> 920  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 920  
ggagcaggac agagccta  
18

<210> 921  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 921  
cgcgggcata accagtac  
18

<210> 922  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 922  
cagtccacca tccccatc  
18

<210> 923  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 923  
cctccagagg atgtacgg  
18

<210> 924  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 924  
acacagatct tcaagaccaa  
20

<210> 925  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 925  
tgaccagtcc gcctacg  
17

<210> 926  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 926  
cacagatctg caaggccc  
18

<210> 927  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 927  
ccgagagaac ctgcgga  
17

<210> 928  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 928  
tctcacatca tccagagga  
19

<210> 929  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 929  
gaggatgtat ggctgcga  
18

<210> 930  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 930

ctgcgacctg gggccc  
16

<210> 931  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 931  
ctggggcccg acggg  
15

<210> 932  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 932  
gtacaagcgc caggcac  
17

<210> 933  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 933  
aggcacaggc tgaccga  
17

<210> 934  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 934  
tgaccgagtg agcctgc  
17

<210> 935  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 935  
ggtctcacat catccagag  
19

<210> 936  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 936  
catccagagg atgtacgg  
18

<210> 937  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 937  
tccgcgggta tgaccag  
17

<210> 938  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 938  
aagaccaaca cacagactta  
20

<210> 939  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 939  
acacagactt accgagaga  
19

<210> 940  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 940  
ggagggcacg tgcgtg  
16

<210> 941  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 941  
gggaaggaga cgctgga  
17

<210> 942  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 942  
gaaggagacg ctggagc  
17

<210> 943  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 943  
ggagggcctg tgcgtg  
16

<210> 944  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 944  
cgtggagtcg ctccgc  
16

<210> 945  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 945  
cggggagctc cgcttc  
16

<210> 946  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 946  
cgccgcgaac acggcg  
16

<210> 947  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 947  
tgcgcgcca ctacaac  
17

<210> 948  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 948  
ggagggcctg tgcgtg  
16



<210> 949  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 949  
ggcccgtgtg gcggag  
16

<210> 950  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 950  
ggagcagctg agagcct  
17

<210> 951  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 951  
cacagatctc caagaccaa  
19

<210> 952  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 952  
acacagactt accgagagg  
19

<210> 953  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 953

ccgagaggac ctgcgg  
16

<210> 954  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 954  
ccctgctccg ctactac  
17

<210> 955  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 955  
tatgaccagg acgcctac  
18

<210> 956  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 956  
aggtatttcg acaccgcc  
18

<210> 957  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 957  
caccgccatg tcccgg  
16

<210> 958  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 958  
gagccgccgg cgccg  
15

<210> 959  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 959  
ggagggcacg tgcgtg  
16

<210> 960  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 960  
gaggaagagc tcaggtgg  
18

<210> 961  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 961  
ccgcgctccg ctactac  
17

<210> 962  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 962  
cctgcggatc gcgctc  
16

<210> 963  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 963  
gcggatcgcg ctccgc  
16

<210> 964  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 964  
tcgcgctccg ctactac  
17

<210> 965  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 965  
gaaggacacg ctggagc  
17

<210> 966  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 966  
acacacagac cttcaagac  
19

<210> 967  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 967  
gacgatgtat ggctgcga  
18

<210> 968  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 968  
gggaccggga cacacag  
17

<210> 969  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 969  
accaccagga cgcctac  
17

<210> 970  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 970  
aacacacagg ctgaccga  
18

<210> 971  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 971  
gccctgggct tctaccc  
17

<210> 972  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 972  
caccagctc aagtggg  
17

<210> 973  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 973  
cttggcagac gatgtatgg  
19

<210> 974  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 974  
taaccagtta gcctacgac  
19

<210> 975  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 975  
ctgacgacctg gggccg  
16

<210> 976  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 976

atcttcccaa tccaccgtc  
19

<210> 977  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 977  
gagagcctgc ctggagg  
17

<210> 978  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 978  
accctccagt ggatgtatg  
19

<210> 979  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 979  
agcaggagac agaaccttc  
19

<210> 980  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 980  
atgggagcca tcttccca  
18

<210> 981  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 981  
tctacaccgc cgtgtcc  
17

<210> 982  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 982  
tccatgaggc atttctacac  
20

<210> 983  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 983  
ggggccggaa tattggga  
18

<210> 984  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 984  
tccgcagaca cctggag  
17

<210> 985  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 985  
gacgctgcag cgcgcg  
16



<210> 986  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 986  
ctctcgggag ccctgg  
16

<210> 987  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 987  
cgggcgccat ggataga  
17

<210> 988  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 988  
ggaccgggag acacagat  
18

<210> 989  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 989  
cggagcagtg gagagcc  
17

<210> 990  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 990  
tcaggacacc gagcttgt  
18

<210> 991  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 991  
cgacggcaaa gattacatc  
19

<210> 992  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 992  
tggaccgcgg cggaca  
16

<210> 993  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 993  
cgccctgaat gaggacct  
18

<210> 994  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 994  
cagttcgtgc ggttcgac  
18

<210> 995  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 995  
gtggtcgcta ctgtgatg  
18

<210> 996  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 996  
agaggatggt tggctgcg  
18

<210> 997  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 997  
cacagatctg caagaccaa  
19

<210> 998  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 998  
aggatggctc cccggg  
16

<210> 999  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 999

tgcgtaggacg ggctcc  
16

<210> 1000  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1000  
gctcccactt catgaggt  
18

<210> 1001  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1001  
gcctccgcgc agactta  
17

<210> 1002  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1002  
tggtggtgct ttctggag  
18

<210> 1003  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1003  
accaccccgt ctctgac  
17

<210> 1004  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 1004  
accgggagat acagatctc  
19

<210> 1005  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1005  
gaggatggcg ccccgg  
16

<210> 1006  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1006  
gaggatgtct ggctgcg  
17

<210> 1007  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1007  
cgcgacaag gcggct  
16

<210> 1008  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1008  
ccctccagac gatgtacg  
18

<210> 1009  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1009  
cctccagacg atgtacgg  
18

<210> 1010  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1010  
aacctgcgca ccgcgc  
16

<210> 1011  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1011  
aggacctgag ctcttg  
17

<210> 1012  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1012  
gcttcacgc agtgggc  
17

<210> 1013  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1013  
atggcgcccc gggcg  
15

<210> 1014  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1014  
cgacgccacg agtccg  
16

<210> 1015  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1015  
cagctgagaa cctacctg  
18

<210> 1016  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1016  
ccaacacacg gacttacc  
18

<210> 1017  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1017  
gggaaggaga cgctgca  
17

<210> 1018  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1018  
acgacacgct gttcgtga  
18

<210> 1019  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1019  
cttaccgagt gaacctgc  
18

<210> 1020  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1020  
ccgagtgaac ctgcgga  
17

<210> 1021  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1021  
ataaccagtt cgcctacga  
19

<210> 1022  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1022



gtgaggttca acagcgac  
18

<210> 1023  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1023  
cacccagcac aagtggg  
17

<210> 1024  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1024  
cggagcagct gagaacct  
18

<210> 1025  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1025  
aggtatttcc acacctccg  
19

<210> 1026  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1026  
aaagacacat gtgaccac  
19

<210> 1027  
<211> 20

<212> DNA  
<213> Homo sapiens

<400> 1027  
atctccaaga tcaacacaca  
20

<210> 1028  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1028  
ggcccgtcag gcggag  
16

<210> 1029  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1029  
gatagagcaa gaggggccc  
18

<210> 1030  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1030  
cagacttaca gagagagccc  
19

<210> 1031  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1031  
gaatatgtat ggctgcgac  
19

<210> 1032  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1032  
cgcttcattg cagtgggc  
18

<210> 1033  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1033  
gccctgaagg aggacct  
17

<210> 1034  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1034  
cttaccgagt gagcctgc  
18

<210> 1035  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1035  
gaggatgtgc ggctgcg  
17

<210> 1036  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1036  
gatagagcaa gaggggcc  
18

<210> 1037  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1037  
cacagatctg caaggcca  
18

<210> 1038  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1038  
cctgcgcacc gcgctc  
16

<210> 1039  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1039  
cgcaccgcgc tccgc  
15

<210> 1040  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1040  
cctccagaat atgtatggc  
19

<210> 1041  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1041  
ggccggagca ttgggac  
17

<210> 1042  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1042  
tctaccctgg ggagatca  
18

<210> 1043  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1043  
ggacacggca gctcagat  
18

<210> 1044  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1044  
gggggcagtg gccctg  
16

<210> 1045  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1045

gaggccgggtt ctcacac  
17

<210> 1046  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1046  
tcccggcctg gccgc  
15

<210> 1047  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1047  
accaccagca cgcctac  
17

<210> 1048  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1048  
acctgggctg gctccc  
16

<210> 1049  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1049  
ggtcacggag cccga  
16

<210> 1050  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 1050  
gccggagttt tgggacc  
17

<210> 1051  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1051  
cctccagaat atgtacggc  
19

<210> 1052  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1052  
cctgcggacc ctgctc  
16

<210> 1053  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1053  
ctcagatctc ccagcgc  
17

<210> 1054  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1054  
gctgagagct tacctgga  
18

<210> 1055  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1055  
cgggcgttcc tccgc  
15

<210> 1056  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1056  
atgaccagtt cgcctacg  
18

<210> 1057  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1057  
cgcgggcata accagttc  
18

<210> 1058  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1058  
cggcccgtcc gcggg  
15

<210> 1059  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 1059  
gcggacaccg cggctc  
16

<210> 1060  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1060  
tctcacatca tccagagca  
19

<210> 1061  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1061  
gtggggcccg acggg  
15

<210> 1062  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1062  
acggagcccc gggcg  
15

<210> 1063  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1063  
tccgaggacg gagccc  
16

<210> 1064  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1064  
acctgcgcga ctactaca  
18

<210> 1065  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1065  
gtccgcctgc gacggc  
16

<210> 1066  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1066  
tcctggacag cggcgg  
16

<210> 1067  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1067  
ccgagagaac ctgcgca  
17

<210> 1068  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1068

ggggccggga tattggg  
17

<210> 1069  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1069  
tggagggcat gtgcgtg  
17

<210> 1070  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1070  
ggagggcatg tgcgtgg  
17

<210> 1071  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1071  
gcggcggaga ccgcg  
15

<210> 1072  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1072  
ggaggggcca gaatattg  
18

<210> 1073  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 1073  
cttggcagac gatgtacg  
18

<210> 1074  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1074  
ttggcagacg atgtacgg  
18

<210> 1075  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1075  
cagcggagaa cctacctg  
18

<210> 1076  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1076  
ggccgcggag agccc  
15

<210> 1077  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1077  
caccctccac aggatgta  
18

<210> 1078  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1078  
cggagcagtg gagaacc  
17

<210> 1079  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1079  
cagtggagaa cctacctg  
18

<210> 1080  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1080  
gatcacccgg cgcaagt  
17

<210> 1081  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1081  
ccagagcacg tacggct  
17

<210> 1082  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1082  
ggcggccctt gtggcg  
16

<210> 1083  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1083  
acctgggagg gctccc  
16

<210> 1084  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1084  
gtcacggcac cccgaac  
17

<210> 1085  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1085  
aggtatttcc acaccgcc  
18

<210> 1086  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1086  
gtccgaggaa ggagccg  
17

<210> 1087  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1087  
gcgcaagttg gaggcgg  
17

<210> 1088  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1088  
acctgggctg gctccc  
16

<210> 1089  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1089  
tgcgtaggatt ggctccg  
17

<210> 1090  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1090  
cataaccaga acgcctacg  
19

<210> 1091  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1091

ttgggacccg gagacac  
17

<210> 1092  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 1092  
atcatccagg tgatgtatgg  
20

<210> 1093  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1093  
gacggcaaga attacatcg  
19

<210> 1094  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1094  
ataaccagtc cgcctacg  
18

<210> 1095  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1095  
ctgcggaagc tgcgcg  
16

<210> 1096  
<211> 19



<212> DNA  
<213> Homo sapiens

<400> 1096  
tcacacttgg cagaggatg  
19

<210> 1097  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1097  
cacgctgcag cgcgcg  
16

<210> 1098  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1098  
accatgaggt caccctga  
18

<210> 1099  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1099  
acagatctcg aagaccaac  
19

<210> 1100  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1100  
gcccgtgtcg cggagc  
16

<210> 1101  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1101  
gcgcaccgcg ctccg  
15

<210> 1102  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1102  
ccgcttcatt gcagtggg  
18

<210> 1103  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1103  
cctgcgcacc ccgctc  
16

<210> 1104  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1104  
ccccgctccg ctactac  
17

<210> 1105  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1105  
gtattgggag cgggagac  
18

<210> 1106  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1106  
gcgggcataa ccaggac  
17

<210> 1107  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1107  
cataaccagg acgcctac  
18

<210> 1108  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1108  
ctccgcgggt ataaccag  
18

<210> 1109  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1109  
ccgtgggtgg agcagg  
16

<210> 1110  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1110  
gcggatcgcg ctccgc  
16

<210> 1111  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1111  
cacgctgttg gtgagggt  
18

<210> 1112  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1112  
cctgtgcgcg gagtcg  
16

<210> 1113  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1113  
gattacatca ccctgaacg  
19

<210> 1114  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1114

ggtataaccg gttagccta  
19

<210> 1115  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1115  
aggacagagt ctacctgg  
18

<210> 1116  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1116  
aagtacaagc gccaggca  
18

<210> 1117  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1117  
cacagactgg ccgagtga  
18

<210> 1118  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1118  
gctgctgtgg tgtgtagg  
18

<210> 1119  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 1119  
aacctgctcc gctactac  
18

<210> 1120  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1120  
cagaagtgga cagctgtg  
18

<210> 1121  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1121  
cagcgcgcgg acccc  
15

<210> 1122  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1122  
cttcatctcc gtgggcta  
18

<210> 1123  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1123  
cgtggagggg ctccgc  
16

<210> 1124  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1124  
cgctccgcga ctacaac  
17

<210> 1125  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1125  
cgggcataaa cagtacgc  
18

<210> 1126  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1126  
cctccgcggt tataacca  
18

<210> 1127  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1127  
cctcctcccc gggcat  
16

<210> 1128  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1128  
gacggagacc cgggcg  
16

<210> 1129  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1129  
ggaggggcgg gagtatt  
17

<210> 1130  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1130  
gcaggagatg gaaccttc  
18

<210> 1131  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1131  
ggggctgctg aagccc  
16

<210> 1132  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1132  
cgggtcacgg cgccc  
15



<210> 1133  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1133  
tccgaggacg gagccg  
16

<210> 1134  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1134  
cgagagaact tgcggatc  
18

<210> 1135  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1135  
cgcgagtcag aggacgg  
17

<210> 1136  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1136  
ggagcccccc ttcacgcg  
17

<210> 1137  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1137

ggggccggcg tattgg  
16

<210> 1138  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1138  
tccgagaggg gagccg  
16

<210> 1139  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1139  
cttggcagat gatgtatgg  
19

<210> 1140  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1140  
gtacaagggc caggcac  
17

<210> 1141  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1141  
tcatccaggt gatgtatgg  
19

<210> 1142  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 1142  
tgaccagtct gcctacga  
18

<210> 1143  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 1143  
gcggacacag cggctc  
16

<210> 1144  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1144  
tattgggacg gggagaca  
18

<210> 1145  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1145  
cgcggtata accagtac  
18

<210> 1146  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1146  
ctcagatcat ccagcgca  
18

<210> 1147  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1147  
cgcgctcccc tactaca  
17

<210> 1148  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1148  
attgggacga ggagacac  
18

<210> 1149  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 1149  
gcccgtgcgg cggag  
15

<210> 1150  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1150  
gaaggagacg ctgcagc  
17

<210> 1151  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1151  
gcgagtccaa gagggga  
17

<210> 1152  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1152  
gctgtggtcg ctgtggt  
17

<210> 1153  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 1153  
cctggaggac ctgtgcg  
17

<210> 1154  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1154  
agctgtggtt gctactgtg  
19

<210> 1155  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 1155  
ctgagctctt cctcctacac a  
21

<210> 1156  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 1156  
tccttcccgt tctccaggt  
19

<210> 1157  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 1157  
aggtctcggg cagggcca  
18

<210> 1158  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 1158  
gctcccactc catgaggtat ttc  
23

<210> 1159  
<211> 1020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (955)..(957)  
<223> n is a, c, g, or t

<400> 1159  
atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgcttcc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctannngca 960

gttgtggtca tcggagctgt ggtcgctgct gtgatgtgta ggaggaagag  
ttcaggtgga 1020

<210> 1160

<211> 1009

<212> DNA

<213> Homo sapiens

<400> 1160

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca ggtacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtt  
1009

<210> 1161

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1161

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggt 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagac  
aagctggagc 540

gcgctg  
546

<210> 1162

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1162

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1163

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1163

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcaggac 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1164

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1164

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccatccc catcgtgggc attggtgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1165

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1165

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1166

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1166

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1167  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1167  
ggctccact ccatgaggta tttctacacc tccgtgtccc ggcccggccg  
cggggagccc 60  
  
cgcttcatct cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120  
  
gcgagtccga gagaggagcc gcgggcgcgc tggatagagc aggaggggcc  
ggagtattgg 180  
  
gaccggaaca cacagatctt caagaccaac acacagactg accgagagag  
cctgcggaac 240  
  
ctgcgcggct actacaacca gagcgaggcc gggcttcaca ccctccagag  
catgtacggc 300  
  
tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcatg accagtacgc  
ctacgacggc 360  
  
aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgccgcgga  
cacggcggtc 420  
  
cagatcacc cagcgaagtg ggaggcggcc cgtgaggcgg agcagcggag  
agcctacctg 480  
  
gagggcgagt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
caagctggag 540  
  
cgcgct  
546

<210> 1168  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1168  
atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60



gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1169

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1169

gtcccactc catgaggtat ttctacacct ccgtgtcccg gcccgggccg  
ggggagcccc 60

gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1170

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1170

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1171

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1171

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1172  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1172  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1173  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1173

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1174

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1175

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1176

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1176

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1177  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1177  
atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660



catgaggcca ccttgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1178

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1178

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctggagc 540

gcgcgg  
546

<210> 1179

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1179

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1180  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1180  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagctcc 60  
  
gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540  
  
gcgctg  
546

<210> 1181  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1181  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgaac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1182

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1182

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgggcca ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagc  
aagctggagc 540

gcgctg  
546

<210> 1183

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1183

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgggccg  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacggcg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1184  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1184  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgggcgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1185  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1185  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540  
  
gcgctg  
546

<210> 1186  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1186

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1187

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1187

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180



accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1188

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1188

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1189

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1189

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg ccggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1190  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1190  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1191  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1191

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttcgaca ccgcatgtc  
ccgccccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggcccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggacagct gtgggtgggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtc ccacgcgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggc cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1192

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1192

atgctgggtca tggcgccccg aacgcgcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttcgaca ccgccatgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcg gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
tgaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1193

<211> 526

<212> DNA

<213> Homo sapiens

<400> 1193

ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc gcttcatctc  
agtgggctac 60

gtggacgaca cgcagttcgt gaggttcgac agcgacgccg cgagtccgag  
agaggagccg 120

cgggcgccgt ggatagagca ggaggggccg gagtattggg accggaacac  
acagatcttc 180

aagaccaaca cacagactta ccgagagAAC ctgcggatcg cgctccgcta  
ctacaaccag 240

agcgaggccg ggtctcacac cctccagagc atgtacggct gcgacgtggg  
gccggacggg 300

cgcctcctcc gcgggcataa ccagtacgcc tacgacggca aggattacat  
cgccctgaac 360

gaggacctgc gctcctggac cgcggcggac accgcggctc agatcaccca  
gcgcaagtgg 420

gaggcggccc gtgtggcgga gcaggacaga gcctacctgg agggcacgtg  
cgtggagtgg 480

ctccgcagat acctggagaa cgggaaggac acgctggagc gcgcgg  
526

<210> 1194

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1194

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1195

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1195

gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagaccttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1196

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1196

gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120



cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1197

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1197

gctcccactc catgaggtat ttcgacaccc ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1198

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1198

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1199  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1199  
gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1200

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1200  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcgcgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540  
  
gcgcgg  
546

<210> 1201  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1201  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1202

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1202

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1203

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1203

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1204

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1204

gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1205  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1205  
gctcccaactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacaggctga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540  
  
gcgcgg  
546

<210> 1206  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1206  
gctcccaactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1207

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1207

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccggac gggcgcctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagctcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccacgcgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggc cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1208

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1208

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagctcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1209

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1209

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1210

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1210

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1211

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1212

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1212

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagctcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctgcc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017



<210> 1213  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1213  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1214  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1214  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1215

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1215

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1216

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1216

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1217

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1217

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1218

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1218

gctcccactc catgaggtat ttctacaccg ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggaccc ccaaagaca catgtgacct accaccccat ctctgacct  
gaggccacct 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gacagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1219

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1219

gctcccactc catgaggcat ttctacaccg ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagaactgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1220  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1220  
atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
taaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgg  
619

<210> 1221  
<211> 546



<212> DNA

<213> Homo sapiens

<400> 1221

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1222

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1222

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1223

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1223

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1224

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1224

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1225

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1225

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1226

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1226

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1227

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1227

atgcggttca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1228

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1228

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtaggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1229

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1229

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120



cgcggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
cacttggcag	360			
acgatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
tgaccagtcc	420			
gcctaogacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgaggc
ggagcagtgg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttcccagt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1230

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1230

ggctccact ccatgaggta tttctacacc gccatgtccc ggcccggccg  
cggggagccc 60

cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagatctc caagaccaac acacagactt accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggctctaca ccctccagag  
gatgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcatg accagtccgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga  
cacggcggt 420

cagatcacc agcgcaagtg ggaggcggcc cgtgtggcgg agcagctgag  
agcctacctg 480

gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgcggaac ccccaaagac acatgtgacc caccaccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggcgcc tctggagaag agcagagata  
cacatgcat 780

gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc  
ttcccagttcc 840

accatcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcatcgga 900

gctgtggtcg ctactgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1231

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1231

ggctcccact ccatgaggta tttctacacc gccatgtccc ggcccggccg  
cggggagccc 60

cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagatctc caagaccaac acacagactt accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggctctaca ccctccagag  
gatgtttggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggtatg accagtccgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga  
cacggcggct 420

cagatcaccc agcgcaagtg ggaggcggcc cgtgaggcgg agcagctgag  
agcctacctg 480

gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgcggacc ccccaaagac acatgtgacc caccaccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata  
cacatgccat 780

gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc  
ttcccagtc 840

accatcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcatcgga 900

gctgtggtcg ctactgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1232

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1232

ggctcccact ccatgaggta tttctacacc gccatgtccc ggcccggccg  
cggggagccc 60

cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtccga ggatggcgcc ccggggcgcca tggatagagc aggagggggc  
ggagtattgg 180

gaccgggaga cacagatctc caagaccaac acacagactt accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggcttcaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcatg accagtcgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga  
cacggcggct 420

cagatcaccc agcgcaagtg ggaggcggcc cgtgaggcgg agcagtggag  
agcctacctg 480

gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgcgagacc ccccaaagac acatgtgacc caccacccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata  
cacatgccat 780

gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc  
ttcccagtc 840

accatcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcatcgga 900

gctgtggtcg ctactgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1233

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1233

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1234

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1234

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tattttctaca ccgccatgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1235

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1235

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660



catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1236

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1236

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1237

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1237

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggctccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1238

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1238

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtaggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtagggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1239

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1239

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc	cccgtttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
aacctgcgga	tcgcgctccg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
tgaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgaggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggacagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttcccagt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1240  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1240  
atgcgggtca cggcgcccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60  
  
gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540  
  
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1241

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1241

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1242

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1242

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca cttcatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300



aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1243

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1243

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1244

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1244

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1245

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1245

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggac gggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc tttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1246

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1246

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1247

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1247

atgcgggtca	cggcgccccg	aaccgtcctc	ctgctgctct	cgggagccct
ggccctgacc	60			
gagacctggg	ccggtctcca	ctccatgagg	tatttctaca	cgcctatgtc
ccggccccgc	120			
cgcggggagc	cccgtttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	tgcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
tgaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgaggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggg cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1248

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1248

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660



catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1249

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1249

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1250

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1250

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1251

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1251

gaggtatttc tacaccgcca tgtcccggcc cggccgcggg gagccccgct  
tcatcgcagt 60

gggctacgtg gacgacaccc agttcgtgag gttcgacagc gacgccgcga  
gtccgaggat 120

ggcgccccgg gcgccatgga tagagcagga ggggcccggag tattgggacc  
gggagacaca 180

gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tttggctgcg  
acgtggggcc 300

ggacggggcg ctcctccgcg ggcatgacca gtccgcctac gacggcaagg  
attacatcg 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcacccagcg 420

caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc  
529

<210> 1252

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1252

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gatacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1253

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1253

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt gggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1254

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1254

gaggtatttc tacaccgcca tgtcccggcc cggccgcggg gagccccgct  
tcatcgagct 60

gggctacgtg gacgacaccc agttcgtgag gttcgacagc gacgccgcga  
gtccgaggat 120

ggcgccccgg gcgccatgga tagagcagga gggggccggag tattgggacc  
gggagacaca 180

gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tacggctgcg  
acgtggggcc 300

ggacggggcg ctcctccgcg ggcataacca gtacgcctac gacggcaagg  
attacatcgc 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcacccagcg 420

caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc  
529

<210> 1255

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1255

gaggtatttc tacaccgcca tgtcccggcc cggccgcggg gagccccgct  
tcatcgagc 60

gggctacgtg gacgacaccc agttcgtgag gttcgacagc gacgccgcga  
gtccgaggat 120

ggcgccccgg gcgccatgga tagagcagga ggggccggag tattgggacc  
ggaacacaca 180

gatctccaag accaacacac agacttacgc agagagcctg cggaacctgc  
gcggctacta 240

caaccagagc gaggccgggt ctcacaccct ccagaggatg tacggctgcg  
acgtggggcc 300

ggacggggcg ctctccgcg ggtatgacca gtccgcctac gacggcaagg  
attacatcg 360

cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga  
tcacccagcg 420

caagtgggag gcggcccgtg tggcggagca gctgagagcc tacctggagg  
gcctgtgcgt 480

ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cgg  
533

<210> 1256

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1256

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1257

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1257

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120



cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
aaggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgctgcagc 540

gcgcgg  
546

<210> 1258

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1258

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1259

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1259

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagacg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1260  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1260  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1261

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1261  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1262  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1262  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1263

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1263

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1264

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1264

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1265

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1265

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1266  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1266  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240  
  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1267  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1267  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1268

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1268

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1269

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1269

atgcgggtca cggcgccccc aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgaggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1270

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1270

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1271  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1271  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1272  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1272

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacggactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1273

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1273

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1274

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1274

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1275

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1275

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1276

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1276

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600



gagacgctgc agcgcgcg  
619

<210> 1277

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1277

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1278

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1278

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1279

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1280

<211> 615

<212> DNA

<213> Homo sapiens

<400> 1280

gggtcacggc gcccgaacc gtcctcctgc tgctctcggg agccctggcc  
ctgaccgaga 60

cctgggccgg ctcccactcc atgaggtatt tctacaccgc catgtcccgg  
cccggccgcg 120

gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg  
aggttcgaca 180

gcgacgccgc gagtccgagg atggcgcccc gggcgccatg gatagagcag  
gaggggcccg 240

agtattggga ccgggagaca cagatctcca agaccaacac acagacttac  
cgagtgaacc 300

tgcggaacct gcgcggctac tacaaccaga gcgaggccgg gtctcacacc  
ctccagagga 360

tgtacggctg cgacgtgggg ccggacgggc gcctcctccg cgggcatgac  
cagtccgcct 420

acgacggcaa ggattacatc gccctgaacg aggacctgag ctcttgacc  
gcggcggaca 480

cggcgggtca gatcaccag cgcaagtggg aggcggcccg tgaggcggag  
cagtggagag 540

cctacctgga gggcctgtgc gtggagtggc tccgcagata cctggagaac  
gggaaggaga 600

cgctgcagcg cgcg  
615

<210> 1281

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1281

atgcgggtca cggcgcccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1282

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1282

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcaac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1283

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1283

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1284

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1284

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1285

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1285

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300



gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1286

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1286

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1287  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1287  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1288

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1288

atgcggggtca cggcgcccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacgc gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1289

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1289

gctcccactt catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcacaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1290

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1290

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct  
gagccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1291  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1291  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1292  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1292

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1293

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1293

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtgggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1294

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1294

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaacc ccaaagaca catgtgacct accaccccat ctctgacct  
gaggccacct 600

tgagggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1295

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1295

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1296

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1296

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagatcaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1297

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1297

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtcaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1298

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1298

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg gcacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcaгатcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1299

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1299

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta cagagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1300

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1300

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg gcacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1301

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1301

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg gcacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1302

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1302



gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1303

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1303

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaag gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1304

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1304

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg gcacccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaagagggg 240

ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac  
ttaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcggtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1305

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1305

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1306

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1306

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtgcggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1307

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1307

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1308  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1308  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1309  
<211> 546

<212> DNA

<213> Homo sapiens

<400> 1309

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1310

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1310

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1311

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1311

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300



gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1312

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1312

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1313  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1313  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1314

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1314  
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacggca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg  
gagtattggg 180  
  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1315  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1315  
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1316

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1316

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1317

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1317

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctggt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagcatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ctttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccggtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1318

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1318

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctgggtccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctggggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1319

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1319

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420



gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1320

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1320

gctacgtgga cgacacgctg ttcgtgaggt tcgacagcga cgccgcgagt  
ccgagagagg 60

agccgcgggc gccgtggata gagcaggagg ggccggagta ttgggaccgg  
gagacacaga 120

tctgcaaggc caaggcacag actgaccgag aggacctgcg gaccctgctc  
cgctactaca 180

accagagcga gcccggtct cacaccctcc agaatatgta tggctgcgac  
gtggggccgg 240

acggggcgct cctccgcggg taccaccagg acgcctacga cggcaaggat  
tacatcgccc 300

tgaacgagga cctgagctcc tggaccgccg cggacacggc agctcagatc  
accagcgca 360

agtgggaggc ggcccgtgtg gcggagcagc tgagagccta cctggagggc  
gagtgcgtgg 420

agtggct  
427

<210> 1321

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1321

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1322

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1322

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccggttctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1323

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1323

gctcccactc catgaggtat ttccacacct ccgtgtcccc gcctggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1324  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1324  
atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctggggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1325

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1325

ggctcccact ccatgaggta tttccacacc tccgtgtccc ggcccggccg  
cggggagccc 60

cgcttcatca ccgtgggcta cgtggacgac acgctgttcg tgaggttcga  
cagcgacgcc 120

gcgagtccga gagaggagcc gcgggcgccc tggatagagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagatctg caaggccaag gcacagactg accgagagga  
cctgcggacc 240

ctgctccgct actacaacca gagcgaggcc gggcttcaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcata accagtacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgccgcgga  
cacggcggct 420

cagatcacc c agcgcaagtg ggaggcggcc cgtgtggcgg agcagctgag  
agcctacctg 480

gagggcgagt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgcgagacc ccccaaagac acacgtgacc caccacccca tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggcgaggacc aaactcagga cactgagctt gtggagacca gaccagcagg  
agatagaacc 720

ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata  
cacatgccat 780

gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccgtc  
ttcccagtc 840

accgtcccca tcgtgggcat tgttgctggc ctggctgtcc tagcagttgt  
ggtcatcgga 900

gctgtggtcg ctgctgtgat gtgtaggagg aagagctcag gtgga  
945

<210> 1326

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1326

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacgc gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1327

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1327



atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctggt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccagcac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ctttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc  
aggtgga 1017

<210> 1328

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1328

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1329

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1329

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctgggtccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

agcctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1330

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1330

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1331

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1331

atgcgggtca cggagccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgctggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1332

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1332

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac  
tgaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1333

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1333

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1334

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1334

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aagaccaaca cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420



agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1335

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1335

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagttttggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1336  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1336  
atgcgggtca cggcgccccc aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aatatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccaccaggac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgg  
619

<210> 1337  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1337

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1338

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1338

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaacc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1339

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1339

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaacc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1340

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1340

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1341  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1341  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaccc 240  
  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420  
  
agatctccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1342  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1342

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1343

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1343

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc	cccgtttcat	cgcagtgggc	tacgtggacg	acacccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggacggag	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtatg	gctgcgacct	ggggcccgac	gggcgcctcc	tccgcgggca
tgaccagtcc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
cgtctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttcccagt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			



<210> 1344  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1344  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcttacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1345  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1345  
atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgcttcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1346

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1346

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1347

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1347

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1348

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1348

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacct ggggcccgcac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggacagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1349

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1349

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1350

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1350

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccgtc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660



catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1351

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1351

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1352

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1352

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgacctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1353

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1353

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1354

<211> 525

<212> DNA

<213> Homo sapiens

<400> 1354

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggga  
525

<210> 1355

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1355

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggacagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1356

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1356

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc	cccgtttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggacggag	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggaccggaa	cacacagatc	ttcaagacca	acacacagac
ttaccgagag	300			
agcctgcgga	acctgcgcgg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
aggatgtacg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
taaccagtac	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacacgtga	cccaccaccc
cgtctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacactgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttcccagt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1357  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1357  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180  
  
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1358  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1358  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1359

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1359

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1360

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1360

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1361

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1361

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1362

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1362

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1363

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1363

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1364  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1364  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180  
  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1365  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1365

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1366

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1366

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1367

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1367

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360



aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1368

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1368

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1369  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1369  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1370  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1370

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccc cgggcgccat ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1371

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1371

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1372

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1372

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1373

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1373

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagtctcg gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1374

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1374

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc  
atgtacggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccttgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1375  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1375  
atgcgggtca cggcgccccc aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
agcatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1376

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1376

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540



gcgcgg  
546

<210> 1377  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 1377  
tgaccgagac ctgggccggc tcccactcca tgaggatatt ctacaccgcc  
atgtcccggc 60  
  
ccggccgcgg ggagccccgc ttcattcgcag tgggctacgt ggacgacacc  
cagttcgtga 120  
  
ggttcgacag cgacgccgcg agtccgagga cggagccccg ggcgccatgg  
atagagcagg 180  
  
aggggccgga gtattgggac cggaacacac agatcttcaa gaccaacaca  
cagacttacc 240  
  
gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg  
tctcacatca 300  
  
tccagaggat gtatggctgc gacctggggc ccgacggggc cctcctccgc  
gggcatgacc 360  
  
agttcgcta cgacggcaag gattacatcg ccctgaacga ggacctgagc  
tcctggaccg 420  
  
cggcggacac cgcggctcag atcaccacgc gcaagtggga ggcggcccgt  
gtggcggagc 480  
  
agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgcagatac  
ctggagaacg 540  
  
ggaaggagac gctgcagcgc gcgg  
564

<210> 1378  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1378

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtaacgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1379

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1379

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1380

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1380

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgacta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1381

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1381

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1382  
<211> 548  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (547)..(547)  
<223> n is a, c, g, or t

<400> 1382  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgdna  
548

<210> 1383  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1383  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1384  
<211> 912  
<212> DNA  
<213> Homo sapiens

<400> 1384

gggggcagtg gccctgaccg agacctgggc cggctcccac tccatgaggt  
atttctacac 60

cgccatgtcc cggcccggcc gcggggagcc ccgcttcac gcagtgggct  
acgtggacga 120

caccagttc gtgaggttcg acagcgacgc cgcgagtccg aggacggagc  
cccgggcgcc 180

atggatagag caggaggggc cggagtattg ggaccggaac acacagatct  
tcaagaccaa 240

cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc  
agagcgaggc 300

cgggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgcgc  
ggcgctcct 360

ccgcgggcat gaccagtccg cctgcgcagg caaggattac atcgccctga  
acgaggacct 420

gagctcctgg accgcggcgg acaccgcggc tcagatcacc cagcgcaagt  
gggaggcggc 480

ccgtgtggcg gagcagctga gagcctacct ggagggcctg tgcgtggagt  
ggctccgcag 540

atacctggag aacgggaagg agacgctgca gcgcgcggac cccccaaga  
cacacgtgac 600

ccaccacccc gtctctgacc atgaggccac cctgaggtgc tgggccctgg  
gcttctaccc 660

tgcggagatc acactgacct ggcagcggga tggcgaggac caaactcagg  
acactgagct 720

tgtggagacc agaccagcag gagatagaac cttccagaag tgggcagctg  
tggtggtgcc 780

ttctggagaa gagcagagat acacatgcc tgtacagcat gaggggctgc  
cgaagcccct 840

caccctgaga tgggagccat cttcccagtc caccatcccc atcgtgggca  
ttgttgctgg 900

cctggctgtc ct  
912

<210> 1385  
<211> 1012  
<212> DNA  
<213> Homo sapiens

<400> 1385  
atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
1012

<210> 1386

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1386

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1387

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1387

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1388

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1388

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1389

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1389

atgcgggtca cggcgccccc aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccatccag 360

aggatgtctg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1390

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1390

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctgagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aatatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1391

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1391

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc	cccgtttcat	ctcagtgggc	tacgtggacg	acacccagtt
cgtgaggttc	180			
gacagcgacg	ccgcgagtcc	gaggacggag	ccccgggcgc	cgtggataga
gcaggagggg	240			
ccggagtatt	gggaccggga	gacacagatc	tccaagacca	acacacagac
ttaccgagag	300			
gacctgcgga	ccctgctccg	ctactacaac	cagagcgagg	ccgggtctca
caccatccag	360			
aggatgtctg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggta
taaccagttc	420			
gcctacgacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacaccgcgg	ctcagatcac	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcaggac	540			
agagcctacc	tggagggcac	gtgcgtggag	tggctccgca	gacacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctggggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggacagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccgaagcccc	tcaccctgag
atgggagcca	900			
tcttcccagt	ccaccatccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctactgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1392  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1392  
atgcgggtca cggcgcccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
gacctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccatccag 360  
  
aggatgtctg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
taaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgg  
619

<210> 1393  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1393



atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccacgcgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggc cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1394

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1394

atgctgggtca tggcgccccg aacgcgcctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggccccgc 120

cgcggggagc cccgcttcat ctcatggggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatgatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1395

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1395

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac agcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1396

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1396

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1397  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1397  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1398  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1398  
gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gacagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1399

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1399

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1400

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1400

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
ggatattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1401

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1401

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360



aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcatgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1402  
<211> 548  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (547)..(547)  
<223> n is a, c, g, or t

<400> 1402  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggag  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgdna  
548

<210> 1403

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1403

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgctcc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1404

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1404

atgctgggtca tggcgccccg aaccgctctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctgagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1405

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1405

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggcca  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1406

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1406

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1407

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1407

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggtccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggg cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1408

<211> 993

<212> DNA

<213> Homo sapiens

<400> 1408

gtcctcctgc tgctctcggc ggccctggcc ctgaccgaga cctggggccgg  
ctcccaactcc 60

atgaggtatt tctacacctc cgtgtcccgg cccggccgcg gggagccccg  
cttcatctca 120

gtgggctacg tggacgacac gcagttcgtg aggttcgaca gcgacgccgc  
gagtccgaga 180

gaggagccgc gggcgccgtg gatagagcag gaggggcccg aatattggga  
ccggaacaca 240

cagatctgca agaccaacac acagactgac cgagagagcc tgcggaacct  
gcgcggctac 300

tacaaccaga gcgaggccgc gtctcacacc ctccagagca tgtacggctg  
cgacgtgggg 360

ccggacgggc gcctcctccg cgggcataac cagttcgctt acgacggcaa  
ggattacatc 420

gccctgaacg aggacctgag ctcttgacc gcggcggaca ccgcggctca  
gatcacccag 480

cgcaagtggg aggcggcccg tgtggcggag cagctgagaa cctacctgga  
gggcacgtgc 540

gtggagtggc tccgcagata cctggagaac gggaaggaga cgctgcagcg  
cgcggaaccc 600

ccaaagacac atgtgacca cccccatc tctgaccatg aggccacct  
gaggtgctgg 660

gccctgggct tctaccctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggaccaa 720



actcaggaca ccgagcttgt ggagaccaga ccagcaggag acagaacctt  
ccagaagtgg 780

gcagctgttg tggcgccttc tggagaagag cagagataca catgccatgt  
acagcatgag 840

gggctgccga agccccctcac cctgagatgg gagccatctt cccagtcac  
cgtccccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgttg tcatcggagc  
tgtggtcgct 960

gctgtgatgt gtaggaggaa gagttcaggt gga  
993

<210> 1409

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1409

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1410

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1410

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1411

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1411

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttccagtc ccaccgctccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggc cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1412

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1412

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcatgtggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1413

<211> 413

<212> DNA

<213> Homo sapiens

<400> 1413

ggttcgacag cgacgccgag agtccgagag aggagccgag ggcgccgtgg  
atagagcagg 60

aggggccgga atattgggac cggaacacac agatctgcaa gaccaacaca  
cagacttacc 120

gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg  
tctcacaccc 180

tccagaggat gtacggctgc gacgtggggc cggacgggag cctcctccgc  
gggcatgacc 240

agtccgccta cgacggcaag gattacatcg ccctgaacga ggacctgagc  
tcctggaccg 300

cggcggacac cgcggctcag atcaccagc gcaagtggga ggcggcccgt  
gtggcggagc 360

agctgagaac ctacctggag ggcacgtgcg tggagtggct ccgcagatac ctg  
413

<210> 1414  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1414  
atgctgggtca tggcgcccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca  
taaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcaatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540  
  
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1415

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1415

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcgccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtctg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcaagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540



agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1416

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1416

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctgagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1417

<211> 677

<212> DNA

<213> Homo sapiens

<400> 1417

tacacctccg tgtcccggcc cggccgcggg gagccccgct tcatctcagt  
gggctacgtg 60

gacgacacgc agttcgtgag gttcgacagc gacgccgcga gtccgagaga  
ggagccgcgg 120

gcgccgtgga tagagcagga ggggccggaa tattgggacc ggaacacaca  
gatctgcaag 180

accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta  
caaccagagc 240

gaggccgggt ctcacaccct ccagaggatg tacggctgcg acgtggggcc  
ggacggggcg 300

ctcctccgcg ggcataacca gttcgcttac gacggcaagg attacatcgc  
cctgaacgag 360

gacctgagct cctggaccgc ggcggacacc gcggctcaga tcaccacagc  
caagtgggag 420

gcggcccgtg tggcggagca gcggagaacc tacctggagg gcacgtgcgt  
ggagtggctc 480

cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cggaccccc  
aaagacacat 540

gtgaccacac accccatctc tgaccatgag gccaccctga ggtgctgggc  
cctgggcttc 600

taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac  
tcaggacacc 660

gagcttgtgg agaccag  
677

<210> 1418

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1418

gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1419

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1419

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1420

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1420

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1421  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1421  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1422  
<211> 546

<212> DNA

<213> Homo sapiens

<400> 1422

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccacagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1423

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1423

atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1424

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1424

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240



tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1425

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1425

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccg  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1426  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1426  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aagaccaaca cacagactta ccgagagaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1427  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1427  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180  
  
accgggagac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1428  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1428

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcacccg gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1429

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1429

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcacgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attggtgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1430

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1430

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggt 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc ttgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1431

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1431

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gaatattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1432

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1432

atgcgggtca cggcaccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggctccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1433

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1433

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60



gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggg cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1434

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1434

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctgacct cccaaagaca cacgtgacct accaccccat ctctgacct  
gaggccacct 600

tgaggtgctg ggccctgggt ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1435

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1435

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1436

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1436

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1437

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1437

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1438

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1438

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1439

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1439

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600



gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1440

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1440

atgcgggtca cggcaccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggagc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgctggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgctgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1441

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1441

atgcgggtca cggcgccccc aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcg ccatggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1442  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1442  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgccctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1443  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1443  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1444

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1444

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgtgcagc 540

gcgcgg  
546

<210> 1445

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1445

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1446

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1446

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1447

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1447

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1448

<211> 546



<212> DNA

<213> Homo sapiens

<400> 1448

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1449

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1449

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggattgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1450

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1450

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1451

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1451

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1452

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1452

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1453  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1453  
atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc  
ccggcccggc 120  
  
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
tgaccagtcc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgg  
619

<210> 1454  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1454

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacatgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1455

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1455

atgcgggtca cggcaccaccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttccaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatctc ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1456

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1456

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaagagg  
acgtgcagc 540

gcgcgg  
546

<210> 1457

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1457

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420



agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1458

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1458

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccttgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtggt gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1459  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1459  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagaacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1460  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1460  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1461

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1461

gctcccactc catgaggtat ttccacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1462

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1462

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1463

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1463

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgggcgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1464  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1464  
gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540  
  
gcgctg  
546

<210> 1465  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1465

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1466

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1466

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

agaattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1467

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1467

gctcccactc catgaggtat ttccacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360



aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1468

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1468

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgcccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1469  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1469  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1470  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1470

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1471

<211> 912

<212> DNA

<213> Homo sapiens

<400> 1471

gggggcagtg gccctgaccg agacctgggc tggctccac tccatgaggt  
atttccacac 60

ctccgtgtcc cggcccggcc gcggggagcc ccgcttcac accgtgggct  
acgtggacga 120

cacgctgttc gtgaggttcg acagcgacgc cacgagtccg aggaaggagc  
cgcgggcgcc 180

atggatagag caggaggggc cggagtattg ggaccgggag acacagatct  
ccaagaccaa 240

cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc  
agagcgaggc 300

cgggtctcac accctccaga gcatgtacgg ctgcgacgtg gggccggacg  
ggcgccctct 360

ccgcgggcat aaccagtacg cctacgacgg caaggattac atcgccctga  
acgaggacct 420

gcgctcctgg accgccgcgg acacggcggc tcagatcacc cagcgcaagt  
gggaggcggc 480

ccgtgtggcg gagcagctga gagcctacct ggagggcacg tgcgtggagt  
ggctccgcag 540

atacctggag aacgggaagg agacgctgca gcgcgcggac cccccaaga  
cacacgtgac 600

ccaccacccc atctctgacc atgaggccac cctgaggtgc tgggccctgg  
gcttctaccc 660

tgcggagatc aactgacct ggcagcggga tggcgaggac caaactcagg  
aactgagct 720

tgtggagacc agaccagcag gagatagaac cttccagaag tgggcagctg  
tggtggtgcc 780

ttctggagaa gagcagagat acacatgcc a tgtacagcat gaggggctgc  
cgaagcccct 840

caccctgaga tgggagccgt cttcccagtc caccgtcccc atcgtgggca  
ttgttgctgg 900

cctggctgtc ct  
912

<210> 1472

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1472

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1473

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1473

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1474

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1474

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcgccc gtgtggcgga gcagctgaga  
gcctacctg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1475

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1475

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgcg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccba gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga  
gcctacctg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1476  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1476  
atgcgggtca cggcaccctcg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1477

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1477

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1478

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1478

gctcccactc catgaggtat ttccacaccg ccatgtcccc gcccggccgc  
ggagagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1479

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1479

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1480

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1480

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaagc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctggagc 540

gcgcgg  
546

<210> 1481  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1481  
gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1482  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1482

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacacgctgg agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttccagtc ccacgcgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggc cgctgctgtg atgtgttagga ggaagagctc  
aggtgga 1017

<210> 1483

<211> 547

<212> DNA

<213> Homo sapiens

<400> 1483

ggctcccaact ccatgaggta tttccacacc tccgtgtccc ggcccggccg  
cggggagccc 60

cgcttcatct cagtgggcta cgtggacgac acccagttcg tgaggttcga  
cagcgacgcc 120

gcgagtcga gagaggagcc gcgggcgcgc tggatagagc aggaggggcc  
ggagtattgg 180

gaccggaaca cacagatcta caaggcccag gcacagactg accgagagag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggcc gggcttcaca ccctccagag  
catgtacggc 300

tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcata accagtacgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgcggcgga  
caccgcggct 420

cagatcacc agcgcaagtg ggaggcggcc cgtgtggcgg agcaggacag  
agcctacctg 480

gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
cacgctggag 540

cgcgcg  
547

<210> 1484

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1484

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
acgtggagc 540

gcgcgg  
546

<210> 1485

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 1485

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120



cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgagggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtggactg 1020

ctgtgatgtg taggaggaag agctcaggtg ga  
1052

<210> 1486

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1486

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcg aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacct  
gaggtcacc 600

tgagggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1487

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1487

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtcgcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1488

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1488

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1489

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1489

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1490

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1490

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgctgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctgggccctg ggcttctacc ctgctggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1491

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1491

ggcgccatgg atagagcagg aggggccgga gtattgggac cgggagacac  
agatctccaa 60

gaccaacaca cagacttacc gagagaacct gcgcaccgcg ctccgctact  
acaaccagag 120

cgaggccggg tctcacatca tccagaggat gtacggctgc gacgtggggc  
cgacggggcg 180

cctcctccgc gggatatgacc agtacgccta cgacggcaag gattacatcg  
ccctgaacga 240

ggacctgagc tcctggaccg cggcggacac cgcggtcag atcaccacgc  
gcaagtggga 300

ggcggcccgt gtggcggagc aggacagagc ctacctggag ggcctgtgcg  
tgagtcgct 360

ccgcagatac ctggagaacg ggaaggagac gctgcagcgc gcgg  
404

<210> 1492

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1492

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480



gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcg  
619

<210> 1493

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1493

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1494

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1494

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcggtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1495

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1495

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgagggtca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1496  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1496  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtttggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1497  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1497  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccc 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1498

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1498

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1499

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1499

atgcgggtca cggcgccccc aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggagcggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1500

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1500

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180



accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1501

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1501

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1502

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1502

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1503  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1503  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1504  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 1504

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1505

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1505

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1506

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1506

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcgagtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1507

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1507

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacggca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1508  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1508  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1509

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1509  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1510  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1510  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcatcac cgtgggctac gtggacgaca cgctgttggt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1511

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1511

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtgggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1512

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1512

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1513

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1513

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1514

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1514

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgcgagtcg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1515  
<211> 895  
<212> DNA  
<213> Homo sapiens

<400> 1515  
atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180  
  
gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300  
  
aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
aggatgtacg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600  
  
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1516

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1516

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acccggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg

546

<210> 1517  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1517  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360  
  
aggattacat caccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1518  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1518  
atgcgggtca cggcaccgcc aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggtccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct gggggccgac gggcgacctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960



gtggatcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1519

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1519

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1520

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1520

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccggttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1521

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1521

atgcgggtca cggcaccgcc aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttccaca ccgcatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1522

<211> 543

<212> DNA

<213> Homo sapiens

<400> 1522

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgccctctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gtctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcg  
543

<210> 1523

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1523

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1524

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1524

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1525

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1525

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactgg ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1526

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1526

atgcgggtca cggcgccccc aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtttg gctgcgacgt ggggccggac gggcgcctcc tccgcgggta  
ccaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgccgag 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg gtgtgtagga ggaagagctc  
aggtgga 1017

<210> 1527

<211> 904

<212> DNA

<213> Homo sapiens



<400> 1527

gcgggtcacg gcgccccgaa ccctcctcct gctgctcttg ggggcagtgg  
ccctgaccga 60

gacctgggct ggctcccact ccatgaggta tttctacacc gccatgtccc  
ggcccggccg 120

cggggagccc cgcttcatca ccgtgggcta cgtggacgac acgctgttcg  
tgaggttcga 180

cagcgacgcc acgagtccga ggaaggagcc gcgggcgcca tggatagagc  
aggaggggcc 240

ggagtatttg gaccgggaga cacagatctc caagaccaac acacagactt  
accgagagag 300

cctgcggaac ctgcgcggct actacaacca gagcgaggcc gggcttcaca  
ccctccagag 360

gatgtttggc tgcgacgtgg ggccggacgg gcgcctcctc cgcgggtacc  
accaggacgc 420

ctacgacggc aaggattaca tcgccctgaa cgaggacctg agctcctgga  
ccgccgcgga 480

cacggcggct cagatcacc cgcgcaagtg ggaggcggcc cgtgtggcgg  
agcagctgag 540

agcctacctg gagggcgagt gcgtggagtg gctccgcaga tacctggaga  
acgggaagga 600

gacgctgcag cgcgcggacc ccccaaagac acacgtgacc caccaccca  
tctctgacca 660

tgaggccacc ctgaggtgct gggccctggg cttctaccct gcggagatca  
cactgacctg 720

gcagcgggat ggcgaggacc aaactcagga cactgagctt gtggagacca  
gaccagcagg 780

agatagaacc ttccagaagt gggcagctgt ggtggtgcct tctggagaag  
agcagagata 840

cacatgccat gtacagcatg aggggctgcc gaagcccctc accctgagat  
gggagccgtc 900

ttcc  
904

<210> 1528  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1528  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120  
  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtttggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcgcgg  
546

<210> 1529  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1529

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1530

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1530

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1531

<211> 993

<212> DNA

<213> Homo sapiens

<400> 1531

gtcctcctgc tgctctcggc ggccctggcc ctgaccgaga cctggggccgg  
ctcccactcc 60

atgaggtatt tctacacctc cgtgtcccgg cccggccgcg gggagccccg  
cttcatctca 120

gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccgc  
gagtcgcgaga 180

gaggagccgc gggcgccgtg gatagagcag gaggggcccg agtattggga  
ccgggagaca 240

cagatctcca agaccaacac acagacttac cgagagagcc tgcggaacct  
gcgcggctac 300

tacaaccaga gcgaggccgc gtctcacatc atccagagga tgtatggctg  
cgacctgggg 360

cccgacgggc gcctcctccg cgggcatgac cagtccgcct acgacggcaa  
ggattacatc 420

gccctgaacg aggacctgag ctctctggacc gcggcggaca ccgcggctca  
gatcaccacg 480

cgcaagtggg aggcggcccgc tgtggcggag cagctgagag cctacctgga  
gggcctgtgc 540

gtggagtggc tccgcagata cctggagaac gggaaggaga cgctgcagcg  
cgcggaaccc 600

caaagacac acgtgaccca ccaccccgtc tctgaccatg aggccaccct  
gaggtgctgg 660

gccctgggct tctaccctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggaccaa 720

actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt  
ccagaagtgg 780

gcagctgtgg tggcgccttc tggagaagag cagagataca catgccatgt  
acagcatgag 840

gggctgccga agcccctcac cctgagatgg gagccatctt cccagtccac  
catccccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgtgg tcatcggagc  
tgtggtcgct 960

actgtgatgt gtaggaggaa gagctcaggt gga  
993

<210> 1532

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1532

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1533  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1533  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccg  
ggggagcccc 60  
  
gcttcattctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcggaccc cccaaagaca cacgtgacct accaccccat ctctgacct  
gaggccacct 600  
  
tgaggtgctg ggccctgggt ttctacctg cgagatcac actgacctg  
cagcggtatg 660  
  
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720  
  
tccagaagtg gacagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1534

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1534

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggccccgc 120

cgcgggggagc cccgcttcat ctccgtgggc tacgtggacg acaccagtt  
cgtgagggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

agcatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gacaagctgg agcgcgctg  
619

<210> 1535

<211> 546



<212> DNA

<213> Homo sapiens

<400> 1535

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1536

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1536

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac  
aagctggagc 540

gcgctg  
546

<210> 1537

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1537

atgcgggtca cggcaccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgagggtc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1538

<211> 820

<212> DNA

<213> Homo sapiens

<400> 1538

tcccactcca tgaggtatatt ccacaccgcc atgtcccggc ccggccgcgg  
ggagccccgc 60

ttcatcaccg tgggctacgt ggacgacacg ctgttcgtga ggttcgacag  
cgacgccacg 120

agtccgagga aggagccgcg ggcgccatgg atagagcagg aggggccgga  
gtattgggac 180

cgggagacac agatctccaa gaccaacaca cagacttacc gagagaacct  
gcgcaccgcg 240

ctccgctact acaaccagag cgaggccggg tctcacactt ggcagaggat  
gtatggctgc 300

gacctggggc ccgacgggcg cctcctccgc gggataaacc agttagccta  
cgacggcaag 360

gattacatcg ccctgaacga ggacctgagc tcctggaccg cggcggacac  
cgcggctcag 420

atcaccacgc gcaagtggga ggcggcccgt gaggcggagc agctgagagc  
ctacctggag 480

ggcctgtgcg tggagtggct ccgcagatac ctggagaacg ggaaggagac  
gctgcagcgc 540

gcggaccccc caaagacaca tgtgaccac caccatct ctgaccatga  
ggccaccctg 600

aggtgctggg ccctgggctt ctaccctgcg gagatcacac tgacctggca  
gcgggatggc 660

gaggaccaa ctcaggacac cgagcttggt gagaccagac cagcaggaga  
tagaaccttc 720

cagaagtggg cagctgtggt ggtgccttct ggagaagagc agagatacac  
atgccatgta 780

cagcatgagg ggctgccgaa gcccctcacc ctgagatggg  
820

<210> 1539

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1539

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1540

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1540

atgcgggtca cggcaccgcc aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1541

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1541

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttccaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt  
cgtgaggttc 180

gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1542

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1542

gctcccactc catgaggtat ttccacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac  
agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg  
atgtacggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggtataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg

546



<210> 1543  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1543  
atgcgggtca cggcgcccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300  
  
aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360  
  
acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540  
  
agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1544

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1544

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1545

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1545

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1546

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1546

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1547  
<211> 1012  
<212> DNA  
<213> Homo sapiens

<400> 1547  
atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
1012

<210> 1548

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1548

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1549

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1549

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1550

<211> 1017

<212> DNA



<213> Homo sapiens

<400> 1550

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag gggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1551

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1551

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggccccgc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1552

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1552

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccgt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1553

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1553

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1554

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1554

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1555

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1555

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1556

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1556

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1557

<211> 677

<212> DNA

<213> Homo sapiens

<400> 1557

tacaccgcca tgtcccggcc cggccgcggg gagccccgct tcattgcagt  
gggctacctg 60

gacgacaccc agttcgtgag gttcgacagc gacgccgcga gtccgaggac  
ggagccccgg 120

gcgccatgga tagagcagga ggggccggag tattgggacc ggaacacaca  
gatcttcaag 180

accaacacac agacttaccg agagaacctg cggatcgcgc tccgctacta  
caaccagagc 240

gaggccgggt ctcacacttg gcagacgatg tatggctgcg acgtggggcc  
ggacggggcg 300

ctcctccgcg ggcataacca gtacgcctac gacggcaagg attacatcgc  
cctgaacgag 360

gacctgcgct cctggaccgc cgcggacacg gcggctcaga tcaccagcg  
caagtgggag 420

gcggccccgtg tggcggagca gctgagagcc tacctggagg gcgagtgcgt  
ggagtggctc 480

cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cggaccccc  
aaagacacac 540

gtgaccaccc acccgtctc tgaccatgag gccaccctga ggtgctgggc  
cctgggcttc 600



taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac  
tcaggacact 660

gagcttgtgg agaccag  
677

<210> 1558

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1558

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcga ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1559

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1559

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1560

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1560

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1561

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1561

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa acagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1562

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1562

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1563  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1563  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1564

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1564  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgtctcctcc gcggttataa ccagtacgcc  
tacgacggca 360  
  
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1565  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1565  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc ccgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1566

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1566

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1567

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1567

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420



agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1568

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1568

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1569  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1569  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1570  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1570  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1571

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1571

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1572

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1572

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagacc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1573  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1573  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggagg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1574  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 1574

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcgcatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccggt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1575

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1575

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccgt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatggaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1576

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1576

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1577



<211> 822

<212> DNA

<213> Homo sapiens

<400> 1577

gctcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc cccaaagaca cacgtgaccc accaccccggt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgctg aagcccctca ccctgagatg gg  
822

<210> 1578  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1578  
gctcccactt catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1579  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1579

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtggtg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1580

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1580

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg cgcgaggtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1581

<211> 993

<212> DNA

<213> Homo sapiens

<400> 1581

gtcctcctgc tgctctgggg ggcagtggcc ctgaccgaga cctggggccgg  
ctcccactcc 60

atgaggtatt tctacaccgc catgtcccgg cccggccgcg gggagccccc  
cttcattgca 120

gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccgc  
gagtcggagg 180

acggagcccc gggcgccatg gatagagcag gaggggcccg agtattggga  
ccgggagaca 240

cagatctcca agaccaacac acagacttac cgagagaacc tgcggatcgc  
gctccgctac 300

tacaaccaga gcgaggccgg gtctcacact tggcagacga tgtatggctg  
cgacgtgggg 360

ccggacgggc gcctcctccg cgggcataac cagtacgcct acgacggcaa  
agattacatc 420

gccctgaacg aggacctgag ctccctggacc gcggcggaca ccgcggctca  
gatcaccacg 480

cgcaagtggg aggcggcccc tgaggcggag cagctgagag cctacctgga  
gggcctgtgc 540

gtggagtggc tccgcagaca cctggagAAC gggaaggaga cgctgcagcg  
cgcggaaccc 600

ccaaagacac acgtgaccca ccaccccgtc tctgaccatg aggccaccct  
gagtgctgg 660

gccctgggct tctaccctgc ggagatcaca ctgacctggc agcgggatgg  
cgaggaccaa 720

actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt  
ccagaagtgg 780

gcagctgtgg tggcgccttc tggagaagag cagagataca catgccatgt  
acagcatgag 840

gggctgccga agcccctcac cctgagatgg gagccatctt cccagtccac  
catccccatc 900

gtgggcattg ttgctggcct ggctgtccta gcagttgtgg tcatcggagc  
tgtggtcgct 960

actgtgatgt gtaggaggaa gagctcaggt gga  
993

<210> 1582

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1582

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccg cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1583  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1583  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ttgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgccctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1584  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1584  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1585

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1585

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240



cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1586

<211> 1012

<212> DNA

<213> Homo sapiens

<400> 1586

atgcgggtca cggcgccccc aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtca gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag  
1012

<210> 1587

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1587

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggcccg  
ggggagcccc 60

ccttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1588

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1588

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1589

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1589

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1590

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1590

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagaggac  
ctgcggaccc 240

tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1591

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1591

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1592  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1592  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1593

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1593  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcg gatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1594  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1594  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60



gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac catccagagg  
atgtctggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1595

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1595

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1596

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1596

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1597

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1597

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggacct  
ggacctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1598

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1598

gctcccactc catgaggtat ttccacacct ccgtgtccccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1599

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1599

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggcccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgccctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1600

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1600

atgcgggtca cggcaccctg aaccctcctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgccctcc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1601

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1601

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1602

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1602

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240



tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagggag  
acgtgcagc 540

gcgcgg  
546

<210> 1603

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1603

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggcggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1604

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1604

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1605

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1605

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1606

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1606

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1607  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1607  
gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180  
  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300  
  
gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1608  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1608

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagatg  
atgtatggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1609

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1609

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggccc  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

aacctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1610

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1610

atgcgggtca cggcaccctg aaccctcctc ctgctgctct ggggggacct  
ggcctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840



tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcacgc gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1611

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1611

atgcgggtca cggcaccctg aaccctcctc ctgctgctct ggggggacct  
ggacctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggccggac gggcgacctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1612

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1612

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcct gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcggtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1613

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1613

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1614

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1614

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1615

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1615

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1616  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1616  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagaac  
ctgcgcaccg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1617  
<211> 546

<212> DNA

<213> Homo sapiens

<400> 1617

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagggccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1618

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1618

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1619

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1619

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300



gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1620

<211> 895

<212> DNA

<213> Homo sapiens

<400> 1620

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atggg 895

<210> 1621

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1621

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

gtgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1622

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1622

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtctgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1623

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1623

atgcgggtca cggcaccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

gtgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagcgg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1624

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1624

atgcgggtca cggcaccctg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg cgggtccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

gtgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcaccctgag  
atgggagcca 900

tcttcccaat ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggatcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1625

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1625

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acagcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacct  
gaggccaccc 600

tgagggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tgcagcatga ggggctgcca aagcccctca ccctgagatg gg  
822

<210> 1626

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1626

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcgggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1627

<211> 546



<212> DNA

<213> Homo sapiens

<400> 1627

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggcgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1628

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1628

atgcgggtca cggcaccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc	cccgttcat	cgcagtgggc	tacgtggacg	acaccagtt
cgtgagggtc	180			
gacagcgacg	ccgcgagtcc	gaggatggcg	ccccgggcgc	catggataga
gcaggagggg	240			
ccggagtatt	gggacgggga	gacacggaac	atgaaggcct	ccgcgcagac
ttaccgagag	300			
aacctgcgga	tcgcgctccg	ctactacaac	cagagcgagg	ccgggtctca
catcatccag	360			
gtgatgtatg	gctgcgacgt	ggggccggac	gggcgcctcc	tccgcgggca
tgaccagtcc	420			
gcctaogacg	gcaaggatta	catcgccctg	aacgaggacc	tgagctcctg
gaccgcggcg	480			
gacacggcgg	ctcagatcat	ccagcgcaag	tgggaggcgg	cccgtgtggc
ggagcagctg	540			
agagcctacc	tggagggcct	gtgcgtggag	tggctccgca	gatacctgga
gaacgggaag	600			
gagacgctgc	agcgcgcgga	ccccccaaag	acacatgtga	cccaccaccc
catctctgac	660			
catgaggcca	ccctgaggtg	ctgggccctg	ggcttctacc	ctgcggagat
cacactgacc	720			
tggcagcggg	atggcgagga	ccaaactcag	gacaccgagc	ttgtggagac
cagaccagca	780			
ggagatagaa	ccttccagaa	gtgggcagct	gtggtggtgc	cttctggaga
agagcagaga	840			
tacacatgcc	atgtacagca	tgaggggctg	ccaaagcccc	tcaccctgag
atgggagcca	900			
tcttcccaat	ccaccgtccc	catcgtgggc	attgttgctg	gcctggctgt
cctagcagtt	960			
gtggtcatcg	gagctgtggt	cgctgctgtg	atgtgtagga	ggaagagctc
aggtgga	1017			

<210> 1629  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1629  
gctcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcacatgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120  
  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180  
  
acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac  
ctgcggatcg 240  
  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg  
atgtatggct 300  
  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1630  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1630  
gctcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccccta ctacaaccag agcgaggccg ggtctcacat catccaggTg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1631

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1631

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagggtg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcaggacaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1632

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1632

atgcgggtca cggcgccccc aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1633

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1633

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgcac gggcgcctcc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1634

<211> 619

<212> DNA

<213> Homo sapiens

<400> 1634

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggacgagga gacacggaac atgaaggcct ccgcgcagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggca  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgg  
619

<210> 1635

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1635

gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccggccgc  
ggggagcccc 60



gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1636

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1636

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1637

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1637

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggccg  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

acggggagac acggaacatg aaggcctccg cgcagactta ccgagagAAC  
ctgcggatcg 240

cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1638

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1638

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggcctt  
ggcctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacct ggggccggac gggcgctctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1639

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1639

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgctgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
agtgga 1017

<210> 1640

<211> 541

<212> DNA

<213> Homo sapiens

<400> 1640

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

g  
541

<210> 1641

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1641

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tattttctaca cctccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagacagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
aggtgga 1017

<210> 1642

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1642

atgctgggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct  
ggccctgacc 60

gagacctggg cgggtccca ctccatgagg tatttccaca cctccgtgtc  
cggcctggc 120

cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt  
cgtgagggtc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tgcaaggcca aggcacagac  
tgaccagtg 300

ggcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
cacttggcag 360

acgatgtatg gctgcgacat ggggccggac gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
catctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agaacagaga 840

tacacgtgcc atgtgcagca cgaggggctg caggagccct gcaccctgag  
atggaagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
ccttgtggtc 960



accgtagctg tggtcgctgt ggtcgctgct gtgatgtgta ggaggaagag  
ctcaggtgga 1020

<210> 1643

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1643

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgcctcc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1644

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1644

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac  
ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacttggcag 360

acgatgtatg gctgcgacgt ggggccggac gggcgctctc tccgcgggca  
taaccagtac 420

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga ccccccaaag acacacgtga cccaccaccc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc  
aggtgga 1017

<210> 1645

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1645

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1646

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1646

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg  
gagtattggg 180

accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1647

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1647

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaccc ccaaagaca cacgtgaccc accaccccggt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga  
gatagaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acatgccatg 780

tacagcatga ggggctgccg aagcccctca ccctgagatg gg  
822

<210> 1648

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1648

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg  
gagtattggg 180

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg  
atgtatggct 300

gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc  
tacgacggca 360

aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1649  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 1649  
atgctgggtca tggcgccccg aaccgtcctc ctgctgctct ggggggcagt  
ggccctgacc 60  
  
gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc  
ccggcccggc 120  
  
cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180  
  
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240  
  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360  
  
agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca  
taaccagtac 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc  
catctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc  
tggtgga 1017

<210> 1650

<211> 546

<212> DNA

<213> Homo sapiens

<400> 1650

gctcccactc catgaggtat ttctacaccg ctatgtcccc gcccggccgc  
ggggagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac  
agcgacgccg 120

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg  
gagtattggg 180

accggaacac acagatctac aaggcccagg cacagactga ccgagagagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga  
gcctacctgg 480



aggacctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1651

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 1651

atgcgggtca cggcaccccg aaccctcctc ctgctgctct ggggggccct  
ggccctgacc 60

gagacctggg ctggctccca ctccatgagg tatttctaca ccgctatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtttg gctgcgacct ggggcccgcg gggcgccctc tccgcgggca  
taaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
cagaccagca 780

ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag  
atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt  
cctagcagtt 960

gtggtcatcg gagctgtggt tgctactgtg atgtgtagga ggaagagctc  
agtgga 1017

<210> 1652

<211> 620

<212> DNA

<213> Homo sapiens

<400> 1652

atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc  
ccggcccggc 120

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt  
cgtgaggttc 180

gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga  
gcaggagggg 240

ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac  
tgaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta  
tgaccaggac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg  
gaccgcggcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc  
ggagcaggac 540

agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcggb  
620

<210> 1653

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1653

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgaag tattttcttca catccgtgtc  
ccggcctggc 120

cgcgaggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtgtg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcaggcg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtgatgggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1654

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1654

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc  
ccggcctggc 120

cgcggagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtgtg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atgggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtgatgggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1655  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1655  
atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgaag tattttcttca catccgtgtc  
ccggcctggc 120

cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtgtg gctgcgacct ggggccccgac gggcgacctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1656

<211> 546

<212> DNA

<213> human leukocyte

<400> 1656

gctcccactc catgaagtat ttcttcacat ccgtgtcccc gcctggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1657

<211> 546

<212> DNA

<213> human leukocyte

<400> 1657

gctcccactc catgaagtat ttcttcacat ccgtgtcccg gcctggccgc  
ggagagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540



gcgcgg  
546

<210> 1658  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1658  
gctcccactc catgaagtat ttcttcacat ccgtgtcccg gcctggccgc  
ggagagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300  
  
gcgacctggg gcccgacggg cgcctcctcc gcaggtatga ccagtaagcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1659  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1659

gctccactc catgaagtat ttcttcacat ccgtgtcccg gcctggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtaacgc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggcct gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1660

<211> 546

<212> DNA

<213> human leukocyte

<400> 1660

gctccactc catgaagtat ttcttcacat ccgtgtcccg gcctggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtgtggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1661

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1661

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccagc 120

cgcgagagac cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactacgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacagcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctacggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1662

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1662

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccagc 120

cgcgagagac cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacagcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctacggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggacagct gtgggtgggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1663

<211> 546

<212> DNA

<213> human leukocyte

<400> 1663

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acagcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1664  
<211> 1015  
<212> DNA  
<213> human leukocyte

<400> 1664  
atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccagc 120

cgcgagagac cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcga gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcag 1015

<210> 1665

<211> 546

<212> DNA

<213> human leukocyte

<400> 1665

gctcccactc catgaggtat ttctacaccg ctgtgtcccc gccagccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480



agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1666  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1666  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc  
ggagagcccc 60

acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acagcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1667  
<211> 546

<212> DNA

<213> human leukocyte

<400> 1667

gctcccactc catgaggtgt ttctacaccg ctgtgtcccg gccagaccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acagcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1668

<211> 546

<212> DNA

<213> human leukocyte

<400> 1668

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagaccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1669

<211> 546

<212> DNA

<213> human leukocyte

<400> 1669

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1670

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1670

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcgggtc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcctccag 360

aggatgtatg gctgcgacgt ggggcccgcg gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1671

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1671

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcctccag 360

aggatgtatg gctgcgacgt ggggcccgcg gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctaogacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1672

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1672

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccaggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccttgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1673

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1673

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtcccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcg gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300



agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccaggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggccccgac gggcgcctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg cccagatcac ccagcgcgaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atgggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1674

<211> 546

<212> DNA

<213> human leukocyte

<400> 1674

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggcca ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg acccgacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1675

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1675

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggcccgcg gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1676  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1676  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtacggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1677  
<211> 546

<212> DNA

<213> human leukocyte

<400> 1677

gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtacggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1678

<211> 546

<212> DNA

<213> human leukocyte

<400> 1678

gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatgt ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1679

<211> 546

<212> DNA

<213> human leukocyte

<400> 1679

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgccctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1680

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1680

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcgggtc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacgt ggggcccgcg gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcag 1015

<210> 1681

<211> 546

<212> DNA

<213> human leukocyte

<400> 1681

gctcccactc catgaggtat ttctacaccg ctgtgtcccc gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggtaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240



tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtaacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1682

<211> 546

<212> DNA

<213> human leukocyte

<400> 1682

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccg  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtaacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1683  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1683  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggcca ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1684  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1684  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggcca ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1685  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1685

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtctcca ctccatgagg tattttctaca ccgctgtgtc  
ccggccccggc 120

cgcgggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccaggtctca  
caccctccag 360

aggatgtatg gctgcgacgt ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa  
gaatgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1686

<211> 546

<212> DNA

<213> human leukocyte

<400> 1686

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1687  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1687  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60  
  
acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240  
  
tgcgcggtta ctacaaccag agcgaggacg ggtctcacat cctccagagg  
atgtatggct 300  
  
gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480  
  
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1688  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1688

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggggagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggagggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat cctccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1689

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1689

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tatttctcca catccgtgtc  
ctggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggagc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtttg gctgcgacct ggggccggac gggcgacctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgttcagca cgaggggctg ccggagcccc tcaccctgag  
atggaagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctat ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080



ctcatcgctt gtaa  
1094

<210> 1690  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1690  
gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cacagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240  
  
tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300  
  
gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540  
  
gcgcgg  
546

<210> 1691  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1691

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg ccggctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccagc 120

cgcgagagac ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtttg gctgcgacct ggggcccggac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgttcagca cgaggggctg ccggagcccc tcaccctgag  
atggaagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1692

<211> 546

<212> DNA

<213> human leukocyte

<400> 1692

gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gtcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1693  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1693  
gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac ctggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240  
  
tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300  
  
gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1694  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1694

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1695

<211> 546

<212> DNA

<213> human leukocyte

<400> 1695

gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccgccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1696

<211> 546

<212> DNA

<213> human leukocyte

<400> 1696

gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1697

<211> 546

<212> DNA

<213> human leukocyte

<400> 1697

gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggagccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggtc ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1698  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1698  
atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720



tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1699

<211> 546

<212> DNA

<213> human leukocyte

<400> 1699

gctcccactc catgaggtat ttctacaccg ccgtgtcccc gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcatgtg cgtggagtgg ctgcgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1700

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1700

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgcccgg 480

gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgaggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga ccccccaaag acacatgtga cccaccaccc  
catctctgac 660

catgaggtca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1701

<211> 546

<212> DNA

<213> human leukocyte

<400> 1701

gctcccactc catgaggtat ttctacaccg ccgtgtcccc gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1702

<211> 546

<212> DNA

<213> human leukocyte

<400> 1702

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacgtggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1703

<211> 546

<212> DNA

<213> human leukocyte

<400> 1703

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgcggc gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1704  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1704  
atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1705

<211> 546

<212> DNA

<213> human leukocyte

<400> 1705

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1706

<211> 546

<212> DNA

<213> human leukocyte

<400> 1706

gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgcccg  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggtc ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540



gcgcgg  
546

<210> 1707  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1707  
gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1708  
<211> 942  
<212> DNA  
<213> human leukocyte

<400> 1708

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcattctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcggaaca cccaaagaca cacgtgaccc accatcccgt ctctgaccat  
gaggccaccc 600

tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gcgaggacca aactcaggac accgagcttg tggagaccag gccagcagga  
gatggaacct 720

tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac  
acgtgccatg 780

tgcagcacga ggggctgcc a gagcccctca ccctgagatg ggagccatct  
tcccagccca 840

ccatcccat cgtgggcac gttgctggcc tggctgtcct ggctgtccta  
gctgtcctag 900

gagctgtgat ggctgttgtg atgtgtagga ggaagagctc ag  
942

<210> 1709  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1709  
gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagaa ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1710  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1710

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1711

<211> 546

<212> DNA

<213> human leukocyte

<400> 1711

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1712

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1712

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcaagtggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
cacctccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgcctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctcagatcac ccagcgcgaag ttggaggcgg cccgtgcggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcaga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1713

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1713

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggccccggc 120

cgcggagagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctca gatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcaga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ctaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1714

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1714

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtctg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480



gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcaga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1715

<211> 1022

<212> DNA

<213> human leukocyte

<400> 1715

tgctcccact ccatgaggta ttctgacacc gccgtgtccc ggcccggcgc  
cggagagccc 60

cgcttcatct cagtgggcta cgtggacgac acgcagttcg tgcggttcga  
cagcgacgcc 120

gcgagtccga gaggggagcc gcgggcgcgc tgggtggagc aggaggggcc  
ggagtattgg 180

gaccgggaga cacagaagta caagcgccag gcacaggctg accgagtgag  
cctgcggaac 240

ctgcgcggct actacaacca gagcgaggac gggctctaca ccctccagag  
gatgtctggc 300

tgcgacctgg ggcccagcgg gcgcctcctc cgcgggtatg accagtccgc  
ctacgacggc 360

aaggattaca tcgccctgaa cgaggacctg cgctcctgga ccgcggcgga  
caccgcggct 420

cagatcaccg agcgcaagtg ggaggcggcc cgtgcggcgg agcagctgag  
agcctacctg 480

gagggactgt gcgtggagtg gctccgcaga tacctggaga acgggaagga  
gacgctgcag 540

cgcgcagaac ccccaaagac acacgtgacc caccaccccc tctctgacca  
tgaggccacc 600

ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg  
gcagcgggat 660

ggggaggacc agaccagga caccgagctt gtggagacca ggccagcagg  
agatggaacc 720

ttccagaagt gggcagctgt ggtggcgcc tctggacaag agcagagata  
cacgtgccat 780

atgcagcacg aggggctgca agagcccctc accctgagct gggagccatc  
ttcccagccc 840

accatcccca tcatgggcat cgttgctggc ctggctgtcc tggttgtcct  
agctgtcctt 900

ggagctgtgg tcaccgctat gatgtgtagg aggaagagct caggtggaaa  
aggagggagc 960

tgctctcagg ctgcgtgcag caacagtgcc cagggtctctg atgagtctct  
catcacttgt 1020

aa  
1022

<210> 1716  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1716  
atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60  
  
gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120  
  
cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300  
  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccttccag 360  
  
aggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggta  
tgaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480  
  
gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcaggac 540  
  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600  
  
aagacgctgc agcgcgcgga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1717

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1717

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactataac cagagcgagg acgggtctca  
caccttccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1718

<211> 546

<212> DNA

<213> human leukocyte

<400> 1718

gctcccactc catgaggtat ttcgacaccg ccgtgtcccc gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagaat  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1719

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1719

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcggagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcaag acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atgggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct aagatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggttgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1720  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1720  
gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60  
  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420  
  
agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcag  
546

<210> 1721  
<211> 546  
<212> DNA  
<213> human leukocyte



<400> 1721

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtttggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcag  
546

<210> 1722

<211> 546

<212> DNA

<213> human leukocyte

<400> 1722

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1723

<211> 546

<212> DNA

<213> human leukocyte

<400> 1723

gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacat catccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1724

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1724

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
caccttcag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctcagatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcaggac 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagacccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtgc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1725

<211> 546

<212> DNA

<213> human leukocyte

<400> 1725

gctcccactc catgaggtat ttcgacaccg ccgtgtcccc gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccc cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cttccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgcggcgga gcaggacaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1726

<211> 546

<212> DNA

<213> human leukocyte

<400> 1726

gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cttccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1727

<211> 546

<212> DNA

<213> human leukocyte

<400> 1727

gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtc ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgctgcagc 540

gcacag  
546

<210> 1728  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1728  
gctcccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1729  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1729

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagttg gaggcgcccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcag  
546

<210> 1730

<211> 822

<212> DNA

<213> human leukocyte

<400> 1730

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120



cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg  
atgtctggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
accgcggctc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgcggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcagaacc cccaaagaca cacgtgaccc accaccccct ctctgaccat  
gaggccaccc 600

tgagggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg  
cagcgggatg 660

gggaggacca gaccaggac accgagcttg tggagaccag gccagcagga  
gatggaacct 720

tccagaagtg ggcagctgtg gtgggtgcctt ctggacaaga gcagagatac  
acgtgccata 780

tgcagcacga ggggctgcaa gagcccctca ccctgagctg gg  
822

<210> 1731

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1731

atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca  
cacctccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacaccgcgg ctca gatcac ccagcgcaag ttggaggcgg cccgtgcggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgca ga acccccaaag acacacgtga cccaccaccc  
cctctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agagcagaga 840

tacacgtgcc atatgcagca cgaggggctg caagagcccc tcaccctgag  
ctgggagcca 900

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggttgctgctc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcactt gtaa  
1094

<210> 1732

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1732

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggccccgc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagagggggag ccgcggggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtacggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1733

<211> 546

<212> DNA

<213> human leukocyte

<400> 1733

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtacggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggcc gtacggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgtgcagc 540

gcgcgg  
546

<210> 1734

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1734

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1735

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1735

atgcggggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggccccgc 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgctctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtacggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacaggaag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggggcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1736

<211> 546

<212> DNA

<213> human leukocyte

<400> 1736

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgctgcagc 540

gcgcgg  
546



<210> 1737  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1737  
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60  
  
gcttcacatgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120  
  
cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240  
  
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360  
  
aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1738  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1738  
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggtaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtacggcgga gcagctgaga  
gcctacctgg 480

agggcgcgctg cgtggagtgg ctccgcagat acctggagaa caggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1739

<211> 546

<212> DNA

<213> human leukocyte

<400> 1739

gtctccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggtaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
aaggcggtc 420

agatcaccca gcgcaagttg gaggcgggcc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag  
acgtgcagc 540

gcgcgg  
546

<210> 1740

<211> 546

<212> DNA

<213> human leukocyte

<400> 1740

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccg  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagc  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc  
tacgacggca 360

aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtacggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag  
acgctgcagc 540

gcgcgg  
546

<210> 1741  
<211> 687  
<212> DNA  
<213> human leukocyte

<400> 1741  
atgcggggtca tggcgccccg aaccctcacc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcagttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtacggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacggggag 600

aagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggcc  
687

<210> 1742

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1742

atgcggggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggcccgcg gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1743

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1743

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

aggatgtacg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1744

<211> 546

<212> DNA

<213> human leukocyte

<400> 1744

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgggccg  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggagggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgctgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1745

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1745

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120



cgcgagagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctaogacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gactgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1746

<211> 546

<212> DNA

<213> human leukocyte

<400> 1746

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgggccg  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggagggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1747

<211> 681

<212> DNA

<213> human leukocyte

<400> 1747

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg c  
681

<210> 1748

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1748

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggccccgc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gactgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggacagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1749

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1749

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagag cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

tggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gactgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1750

<211> 546

<212> DNA

<213> human leukocyte

<400> 1750

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacgtca 360

aggattacat cgccctgaac gaggacctgc gctcctggac tgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1751

<211> 546

<212> DNA

<213> human leukocyte

<400> 1751

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgggc  
ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac tgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1752

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1752

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
cacctccag 360

aggatgtacg gctgcgacct ggggcccgcg gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgctgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagtgg 540



agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1753

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1753

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctcca catccgtgtc  
ccggcccggc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtttg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atgggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1754  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1754  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccc  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtttggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540  
  
gcgcgg  
546

<210> 1755  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1755

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctcca catccgtgtc  
ccgccccggc 120

cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtttg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1756

<211> 546

<212> DNA

<213> human leukocyte

<400> 1756

gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccgag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtttggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1757  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1757  
gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc  
ggggagcccc 60  
  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120  
  
cgagtccgag aggggagccg cgggcgccgt gggaggagca ggagggggccg  
gagtattggg 180  
  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240  
  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg  
atgtatggct 300  
  
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtccgcc  
tacgacggca 360  
  
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgcggac  
acggcggtc 420  
  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480  
  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1758  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1758

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggccccgc 120

cgcgagagag cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
tgaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1759

<211> 546

<212> DNA

<213> human leukocyte

<400> 1759

gctcccattc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540



gcgcgg  
546

<210> 1760  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1760  
atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccggc 120

cgcgagagac cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggca  
tgaccagtta 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1761

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1761

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcgagagag ccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcg aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcggtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcgagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtggggcagct gtgggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcggtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1762

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1762

atgcgggtca tggcgccccg aactctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggccccgc 120

cgcgagagag cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1763

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1763

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgctgtgtc  
ccggcccggc 120

cgcgagagag cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggccccgac gggcgccctcc tccgcgggca  
tgaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctggt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1764

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1764

atgcgggtca tggcgccccg aaccctcctc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgctgtgtc  
ccggcccggc 120

cgcggagagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
catcatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctcc tccgcgggca  
tgaccagtac 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag  
ctcag 1015

<210> 1765

<211> 546

<212> DNA

<213> human leukocyte

<400> 1765

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgagc  
ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1766

<211> 546

<212> DNA

<213> human leukocyte

<400> 1766

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120



cgagtccaag aggggagccg cgggcgccgt gggtaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag  
acgtgcagc 540

gcgcgg  
546

<210> 1767

<211> 546

<212> DNA

<213> human leukocyte

<400> 1767

gctcccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc  
ggagagcccc 60

acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggtaggagca ggaggggccc  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1768

<211> 546

<212> DNA

<213> human leukocyte

<400> 1768

gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc  
ggagagcccc 60

gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg  
gagtattggg 180

accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1769  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 1769  
gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc  
ggagagcccc 60

acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac  
agcgacgccg 120

cgagtccaag aggggagccg cgggcgccgt gggaggagca ggaggggccg  
gagtattggg 180

accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac  
ctgcggaaac 240

tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg  
atgtatggct 300

gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttagcc  
tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac  
acggcggtc 420

agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga  
gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag  
acgctgcagc 540

gcgcgg  
546

<210> 1770  
<211> 1094

<212> DNA

<213> human leukocyte

<400> 1770

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggccccgac gggcgacctc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgcggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatct  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctggt gttatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg ccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1771

<211> 1094

<212> DNA

<213> human leukocyte

<400> 1771

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca  
caccctccag 360

tggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
tgaccagtcc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcgaag tgggaggcgg cccgtgcggc  
ggagcagcag 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatct  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atgggagcca 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gttatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1772

<211> 1015

<212> DNA

<213> human leukocyte

<400> 1772

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagc cgtgcggttc	cccgtttcat 180	cgcagtgggc	tacgtggacg	acacgcagtt
gacagcgacg gcaggagggg	ccgcgagtcc 240	aagaggggag	ccgcgggcgc	cgtgggtgga
ccggagtatt tgaccgagtg	gggaccggga 300	gacacagaag	tacaagcgcc	aggcacagac
agcctgcgga cacctccag	acctgcgcgg 360	ctactacaac	cagagcgagg	ccgggtctca
tggatgtatg tgaccagtcc	gctgcgacct 420	ggggcccgac	gggcgcctcc	tccgcgggta
gcctacgacg gaccgccgcg	gcaaggatta 480	catcgccctg	aacgaggacc	tgcgctcctg
gacacggcgg ggagcagtgg	ctcagatcac 540	ccagcgcaag	tgggaggcgg	cccgtgcggc
agagcctacc gaacgggaag	tggagggcac 600	gtgcgtggag	tggctccgca	gatacctgga
gagacgctgc cgtctctgac	agcgcgcgga 660	acacccaaag	acacacgtga	cccaccatct
catgaggcca cacactgacc	ccctgaggtg 720	ctgggccctg	ggcttctacc	ctgcggagat
tggcagcggg caggccagca	atggcgagga 780	ccaaactcag	gacaccgagc	ttgtggagac
ggagatggaa agagcagaga	ccttccagaa 840	gtgggcagct	gtggtggtgc	cttctggaga
tacacgtgcc atgggagcca	atgtgcagca 900	cgaggggctg	ccggagcccc	tcaccctgag
tcttcccagc cctggctgtc	ccaccatccc 960	catcgtgggc	atcgttgctg	gcctggctgt
ctagctgtcc ctcag	taggagctgt 1015	ggtggctgtt	gttatgtgta	ggaggaagag

<210> 1773  
<211> 1015  
<212> DNA  
<213> human leukocyte

<400> 1773  
atgcgggtca tggcgcccca agccctcctc ctgctgctct cgggagccct  
ggccctgac 60  
  
gagacctggg ccggtcccca ctccatgagg tattttctaca ccgccgtgtc  
ccggcccggc 120  
  
cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180  
  
gacagcgacg ccgcgagtcg gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240  
  
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300  
  
aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360  
  
aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
taaccagttc 420  
  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480  
  
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgaggc  
ggagcagctg 540  
  
agagcctacc tggagggcga gtgcgtggag tggctccgcg gatacctgga  
gaacgggaag 600  
  
gagacgctgc agcgcgcgga acgccc aaag acacacgtga cccaccatcc  
cgtctctgac 660  
  
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720  
  
tggcagcggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780



ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agaacagaga 840

tacacgtgcc atgtgcagca cgaggggctg caggagccct gcaccctgag  
atggaagccg 900

tcttcccagc ccaccatccc caacttgggc atcgtttctg gccagctgt  
cctggctgtc 960

ctggctgtcc tggctgtcct agctgtccta ggagctgtgg tcgctgctgt  
gatac 1015

<210> 1774

<211> 895

<212> DNA

<213> human leukocyte

<400> 1774

atgcgggtca tggcgccccg aaccctcatc ctgctgctct cgggagccct  
ggccctgatac 60

gagacctggg ccggtccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgaggc  
ggagcagctg 540

agagcctacc tggagggcga gtgcgtggag tggctccgcg gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acgccc aaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagcggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaca  
agaacagaga 840

tacacgtgcc atgtgcagca cgaggggctg caggagccct gcaccctgag  
atgga 895

<210> 1775

<211> 1014

<212> DNA

<213> human leukocyte

<400> 1775

atgcgggtca tggcgcccca agccctcctc ctgctgctct cgggagccct  
ggccctgac 60

gagacctgga ccggtccca ctccatgagg tatttctaca ccgccgtgtc  
ccggcccggc 120

cgcggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca  
caccatccag 360

aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg  
gaccgcggcg 480

gacacggcgg ctcagatctc cagcgcaagt tggaggcggc ccgtgaggcg  
gagcagctga 540

gagcctacct ggagggcgag tgcgtggagt ggctccgcgg atacctggag  
aacgggaagg 600

agacgctgca gcgcgcggaa cgcccaaaga cacacgtgac ccaccatccc  
gtctctgacc 660

atgaggccac cctgaggtgc tgggccctgg gcttctaccc tgcggagatc  
aactgacct 720

ggcagcggga tggggaggac caaactcagg acaccgagct tgtggagacc  
aggccagcag 780

gagatggaac cttccagaag tgggcagctg tgggtggtgcc ttctggacaa  
gaacagagat 840

acacgtgcc a tgtgcagcac gaggggctgc aggagccctg caccctgaga  
tggaagccgt 900

cttcccagcc caccatcccc aacttgggca tcgtttcttg cccagctgtc  
ctggctgtcc 960

tggctgtcct ggctgtccta gctgtcctag gagctgtggt cgctgctgtg atac  
1014

<210> 1776  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1776  
atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcggagagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg cgcgaggtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
cacctccag 360

aggatgtttg gctgcgacct ggggccggac gggcgacctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atgggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atggaagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggttgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1777  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 1777  
atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct  
ggccctgacc 60

gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc  
ccggcccggc 120

cgcgagagac cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt  
cgtgcggttc 180

gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga  
gcaggagggg 240

ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc  
tgaccgagtg 300

aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca  
caccctccag 360

aggatgtttg gctgcgacct ggggccggac gggcgacctc tccgcgggta  
taaccagttc 420

gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgctcctg  
gaccgccgcg 480

gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc  
ggagcagcgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctga  
gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc  
cgtctctgac 660

catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat  
cacactgacc 720

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac  
caggccagca 780

ggagatggaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga  
agagcagaga 840

tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag  
atggaagccg 900

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt  
cctggctgtc 960

ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag  
ctcaggtgga 1020

aaaggagggg gctgctctca ggctgcgctc agcaacagtg cccagggctc  
tgatgagtct 1080

ctcatcgctt gtaa  
1094

<210> 1778  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1778  
caccctccag tggatgtg  
18

<210> 1779  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1779  
ccgcgggtat gaccagta  
18

<210> 1780  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1780  
gaccgccgcg gacacc  
16

<210> 1781  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1781  
agaagtgggc agctgtga  
18

<210> 1782  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1782  
cctcctccgc gggata  
17

<210> 1783  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1783  
gcgctcctgg accgct  
16

<210> 1784  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1784  
gcacgagggg ctgcca  
16

<210> 1785  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1785  
ctgtcctagg agctgtga  
18

<210> 1786  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1786  
caccctccag aggatgtc  
18



<210> 1787  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1787  
gggaggcggc ccgtgt  
16

<210> 1788  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1788  
gggcgcctcc tccgca  
16

<210> 1789  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1789  
caagtgggag gcggcct  
17

<210> 1790  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>

<223> probe for detection

<400> 1790  
ccgtgaggcg gagcagt  
17

<210> 1791  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1791  
agtgaacctg cggaaacta  
19

<210> 1792  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1792  
ccctgggctt ctacccta  
18

<210> 1793  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1793  
gaccgccgcg gacaca  
16

<210> 1794  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1794  
gctgtgtccc ggccca  
16

<210> 1795  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1795  
gaccgccgcg gacacg  
16

<210> 1796  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1796  
ccctgagatg ggagcca  
17

<210> 1797  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1797  
ggtctcacac cctccaga  
18

<210> 1798  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1798  
cgcggtatg accagtc  
17

<210> 1799  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1799  
gcctacctgg agggcga  
17

<210> 1800  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1800  
ctcccactcc atgagggtg  
18

<210> 1801

<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1801  
cgcgggcatg accagtta  
18

<210> 1802  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1802  
ggaccaaact caggacact  
19

<210> 1803  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1803  
caaccagagc gaggccca  
17

<210> 1804  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1804  
aggccaggtc tcacatca  
18

<210> 1805  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1805  
gaagtgggca gctgtgg  
17

<210> 1806  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1806  
gcggacacgg cggcc  
15

<210> 1807  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1807  
atggctgcga cgtggga  
17

<210> 1808  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1808  
ggccgggtct cacatca  
17

<210> 1809  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1809  
catcatccag aggatgtac  
19

<210> 1810  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1810  
ccgcagatac ctgaagaat  
19

<210> 1811  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1811

ctcacaccct ccagagc  
17

<210> 1812  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1812  
ctcctccgcg ggtatgt  
17

<210> 1813  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1813  
cacagactga ccgagtga  
19

<210> 1814  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1814  
cgagtgaacc tgcggaaa  
18

<210> 1815  
<211> 18  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1815

ggatgtatgg ctgcgacg

18

<210> 1816

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1816

gcctacctgg agggcct

17

<210> 1817

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1817

gaccgggaga cacagaac

18

<210> 1818

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1818

ggagcccccac ttcacgcg  
17

<210> 1819  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1819  
cgagtgcggcc tgcggaaa  
18

<210> 1820  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1820  
cgcggttatg accagtta  
18

<210> 1821  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1821  
ggaggcggcc cgtgc  
15

<210> 1822  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1822

ctacaaccag agcgagga

18

<210> 1823

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1823

cgtgaggcgg agcagct

17

<210> 1824

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1824

ctagctgtcc taggagcta

19

<210> 1825

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1825

ggctacgtgg acgacaca  
18

<210> 1826  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1826  
gccgcggaga gcccca  
16

<210> 1827  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1827  
gagatacacg tgccatggt  
19

<210> 1828  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1828  
gaggggagcc gcggga  
16

<210> 1829  
<211> 17  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1829

catcgcagtg ggctacc

17

<210> 1830

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1830

ctgcgacctg gggccg

16

<210> 1831

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1831

tctccacatc cgtgtcct

18

<210> 1832

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1832

caagcgccag gcacagg  
17

<210> 1833  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1833  
ggaccgccgc ggacaa  
16

<210> 1834  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1834  
ctcaccctga gatgggg  
17

<210> 1835  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1835  
tgtgcgtgga gtggctg  
17

<210> 1836  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1836

ccatctctga ccatgaggt

19

<210> 1837

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1837

acctggagaa cgggaaga

18

<210> 1838

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1838

ccgcgggtat aaccagtt

18

<210> 1839

<211> 15

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1839

ggagccgcgg gcgcg  
15

<210> 1840  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1840  
tccgagaggg gagccc  
16

<210> 1841  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1841  
gaggtatttc tacaccgct  
19

<210> 1842  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1842  
cgacgccgcg agtcca  
16

<210> 1843  
<211> 17  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1843

gtccaagagg ggagccc

17

<210> 1844

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1844

gcgccgtggg tggaga

16

<210> 1845

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1845

caccctccag aggatgta

18

<210> 1846

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1846

gatcaccag cgcaagtt  
18

<210> 1847  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1847  
gacgctgcag cgcgca  
16

<210> 1848  
<211> 20  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1848  
ctctgatgag tctctcatca  
20

<210> 1849  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1849  
gagccatctt cccagcct  
18

<210> 1850  
<211> 17  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1850

gagcctacct ggaggga

17

<210> 1851

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1851

tgcgggcgag caggac

16

<210> 1852

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1852

aacctgcgcg gctactat

18

<210> 1853

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1853

gtctcacacc ctccagaat  
19

<210> 1854  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1854  
agctgtggtc accgctaa  
18

<210> 1855  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1855  
caccctccag aggatgtt  
18

<210> 1856  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1856  
aggacgggtc tcacatca  
18

<210> 1857  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1857

acatcatcca gaggatgtc

19

<210> 1858

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1858

tgctctcagg ctgcgtg

17

<210> 1859

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1859

ccgcgggtat gaccagtt

18

<210> 1860

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1860

ggagacgctg cagcgca  
17

<210> 1861  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1861  
gcccctcacc ctgagc  
16

<210> 1862  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1862  
gggagctgct ctcaggt  
17

<210> 1863  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1863  
cgtacggcgg agcagct  
17

<210> 1864  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1864

accctccaga ggatgtac

18

<210> 1865

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1865

tgggaggcgg cccgta

16

<210> 1866

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1866

cgcagatacc tggagaaca

19

<210> 1867

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1867

gcctacctgg agggcg  
16

<210> 1868  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1868  
gataacctgga gaacgggg  
18

<210> 1869  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1869  
acctgcgctc ctggact  
17

<210> 1870  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1870  
gcgctcctgg accgcg  
16

<210> 1871  
<211> 17  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1871

agagccccgc ttcatcg

17

<210> 1872

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1872

caccctccag tggatgta

18

<210> 1873

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1873

cagtccgcct acgacgt

17

<210> 1874

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1874

acaggctgac cgagtgg  
17

<210> 1875  
<211> 20  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1875  
cactccatga ggtatttctc  
20

<210> 1876  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1876  
caccctccag tggatgtt  
18

<210> 1877  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1877  
acaggctgac cgagtgaa  
18

<210> 1878  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1878

atcgccctga acgaggat

18

<210> 1879

<211> 15

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1879

gcctcctccg cgggc

15

<210> 1880

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1880

tcatggcgcc ccgaact

17

<210> 1881

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1881

cgcgggcatg accagtt  
17

<210> 1882  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1882  
cgcgggcatg accagtc  
17

<210> 1883  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1883  
gtgcggcgga gcagca  
16

<210> 1884  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1884  
gctgtggtgg ctgttggt  
18

<210> 1885  
<211> 16  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1885

cgtgcggcgg agcagt

16

<210> 1886

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1886

tggtcgctgc tgtgatac

18

<210> 1887

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1887

ggctgcagga gccctg

16

<210> 1888

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1888

ccctgatcga gacctgga  
18

<210> 1889  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1889  
ccctcaccct gagatgga  
18

<210> 1890  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1890  
ggcctggctg tcctggt  
17

<210> 1891  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1891  
gtggatgtgt ggctgcg  
17

<210> 1892  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1892

atgaccagta cgcctacg

18

<210> 1893

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1893

gcggacaccg cggctc

16

<210> 1894

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1894

gcagctgtga tggcgcct

18

<210> 1895

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1895

cgcggggtata accagttc  
18

<210> 1896  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1896  
tggaccgctg cggacac  
17

<210> 1897  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1897  
gggctgccag agcccc  
16

<210> 1898  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1898  
ggagctgtga tggctgtt  
18

<210> 1899  
<211> 17  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1899

gaggatgtct ggctgcg

17

<210> 1900

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1900

ggcccgtgtg gcggag

16

<210> 1901

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1901

ctcctccgca ggtatgac

18

<210> 1902

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1902

ggcggcctgt gaggcg  
16

<210> 1903  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1903  
cggagcagtg gagagcc  
17

<210> 1904  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1904  
gcggaaacta cgcggcta  
18

<210> 1905  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1905  
ttctacccta cggagatca  
19

<210> 1906  
<211> 16  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1906

gcggacacag cggctc

16

<210> 1907

<211> 15

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1907

ccggcccagc cgcgg

15

<210> 1908

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1908

gcggacacgg cggctc

16

<210> 1909

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1909

atgggagcca tcttccca  
18

<210> 1910  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1910  
accctccaga ggatgtatg  
19

<210> 1911  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1911  
tgaccagtcc gcctacg  
17

<210> 1912  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1912  
ggagggcgag tgcgtg  
16

<210> 1913  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1913

ccatgaggtg tttctacac

19

<210> 1914

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1914

tgaccagtta gcctacgac

19

<210> 1915

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1915

tcaggacact gagcttgtg

19

<210> 1916

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1916

gcgaggccag gtctcac  
17

<210> 1917  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1917  
tctcacatca tccagagga  
19

<210> 1918  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1918  
cagctgtggg ggtgcct  
17

<210> 1919  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1919  
acggcgggcc agatcac  
17

<210> 1920  
<211> 16  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1920

gacgtgggac ccgacg

16

<210> 1921

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1921

gaggatgtac ggctgcga

18

<210> 1922

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1922

cctgaagaat gggaaggag

19

<210> 1923

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1923

cctccagagc atgtacgg  
18

<210> 1924  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1924  
gcgggtatgt ccagtacg  
18

<210> 1925  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1925  
ccgagtgaac ctgcgga  
17

<210> 1926  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1926  
ctgcggaaac tgcgcgg  
17

<210> 1927  
<211> 16  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1927

ctgcgacgtg gggccc

16

<210> 1928

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1928

ggagggcctg tgcgtg

16

<210> 1929

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1929

gacacagaac tacaagcgc

19

<210> 1930

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1930

cacttcatcg cagtgggc  
18

<210> 1931  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1931  
gcccgtgcgg cggag  
15

<210> 1932  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1932  
gagcgaggac gggtctc  
17

<210> 1933  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1933  
ggagcagctg agagcct  
17

<210> 1934  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1934

ctaggagcta tggtggct

18

<210> 1935

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1935

ggacgacaca cagttcgt

18

<210> 1936

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1936

gagagcccca cttcatcg

18

<210> 1937

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1937

gtgccatggt cagcacga  
18

<210> 1938  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1938  
ccgcgggagc cgtgg  
15

<210> 1939  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1939  
tgggctacct ggacgac  
17

<210> 1940  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1940  
ctgggggccgg acggg  
15

<210> 1941  
<211> 16  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1941

cgtgtcctgg cccggc

16

<210> 1942

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1942

aggcacaggc tgaccga

17

<210> 1943

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1943

cgcggaacaag gcggct

16

<210> 1944

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1944

tgagatgggg gccatctt  
18

<210> 1945  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1945  
ggagtggctg cgcagata  
18

<210> 1946  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1946  
accatgaggt caccctga  
18

<210> 1947  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1947  
aacgggaaga agacgctg  
18

<210> 1948  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1948

ataaccagtt cgcctacga

19

<210> 1949

<211> 15

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1949

cgggcgcggt gggcg

15

<210> 1950

<211> 15

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1950

ggggagcccc gggcg

15

<210> 1951

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1951

tacaccgctg tgtcccg  
17

<210> 1952  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1952  
gcgagtccaa gagggga  
17

<210> 1953  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1953  
gggtggagaa ggagggg  
17

<210> 1954  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1954  
agaggatgta tggctgcg  
18

<210> 1955  
<211> 17  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1955

gcgcaagttg gaggcgg

17

<210> 1956

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1956

cagcgcgcag aacccc

16

<210> 1957

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1957

ggctgcgtgc agcaaca

17

<210> 1958

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1958

tcccagccta ccatccc  
17

<210> 1959  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1959  
ctggagggac tgtgcgt  
17

<210> 1960  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1960  
ggagcaggac agagccta  
18

<210> 1961  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1961  
cggctactat aaccagagc  
19

<210> 1962  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1962

cctccagaat atgtatggc

19

<210> 1963

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1963

tcaccgctaa gatgtgtag

19

<210> 1964

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1964

agaggatggt tggctgcg

18

<210> 1965

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1965

atgaccagtt cgcctacg  
18

<210> 1966  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1966  
gggctgcaag agcccc  
16

<210> 1967  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1967  
gctctcaggt tgcgtgca  
18

<210> 1968  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1968  
ggcccgtacg gcggag  
16

<210> 1969  
<211> 19  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1969

ctggagaaca ggaagaaga

19

<210> 1970

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1970

ggagggcgcg tgcgtg

16

<210> 1971

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1971

cctccagagc atgtatgg

18

<210> 1972

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1972

gagaacgggg agaagacg  
18

<210> 1973  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1973  
tcctggactg ccgcgg  
16

<210> 1974  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1974  
tggaccgcgg cggaca  
16

<210> 1975  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1975  
gcttcacgc agtgggc  
17

<210> 1976  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1976

agtggatgta tggctgcg

18

<210> 1977

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1977

cctacgacgt caaggatta

19

<210> 1978

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1978

ccgagtgggc ctgcgg

16

<210> 1979

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1979

ggtattttctc cacatccgt  
19

<210> 1980  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1980  
agtggatggt tggctgcg  
18

<210> 1981  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1981  
gaacgaggat ctgcgctc  
18

<210> 1982  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1982  
ccgcgggcat gaccag  
16

<210> 1983  
<211> 17  
<212> DNA



<213> artificial sequence

<220>

<223> probe for detection

<400> 1983

ccccgaactc tcctcct

17

<210> 1984

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1984

ccgcgggcat gaccag

16

<210> 1985

<211> 17

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1985

ggagcagcag agagcct

17

<210> 1986

<211> 19

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1986

ggctgttggt atgtgtagg  
19

<210> 1987  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1987  
tgtggtcgct gctgtgat  
18

<210> 1988  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1988  
ggagccctgc accctg  
16

<210> 1989  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1989  
gacctggacc ggctcc  
16

<210> 1990  
<211> 18  
<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1990

ctgagatgga agccgtct

18

<210> 1991

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1991

ctgtcctggg tgcctag

18

<210> 1992

<211> 23

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1992

aaacacgggc acctcagggg gat

23

<210> 1993

<211> 21

<212> DNA

<213> artificial sequence

<220>

<223> probe for detection

<400> 1993

ggcctgagtg tggttggaac g  
21

<210> 1994  
<211> 22  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1994  
ccagctcgta gttgtgtctg ca  
22

<210> 1995  
<211> 39  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1995  
aacgttcacc ttaggctgga ccatgtgtca acttatgcc  
39

<210> 1996  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 1996  
agaattacct tttccag  
17

<210> 1997  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 1997

agaattacgt tttccag

17

<210> 1998

<211> 241

<212> DNA

<213> Homo sapiens

<400> 1998

ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg  
agtttatgtt 60

tgaatttgat gaagatgaga tgttctatgt ggatctggac aagaaggaga  
ccgtctggca 120

tctggaggag ttgggccaag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccaccaa 240

c

241

<210> 1999

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1999

gcgtttgtac agacgcatag accaacagga gagtttatgt ttgaatttga  
tgaagatgag 60

atgttctatg tggatctgga caagaaggag accgtctggc atctggagga  
gtttggccaa 120

gccttttcct ttgaggctca ggcggggctg gctaacattg ctatattgaa  
caacaacttg 180

aataccttga tccagcgttc caaccacact caggccacca ac  
222

<210> 2000  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 2000  
gccgcgtttg tacagacgca tagaccaaca ggggagttta tgtttgaatt  
tgatgacgat 60  
  
gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga  
ggagtttggc 120  
  
caagcctttt cttttgaggc tcagggcggg ctggctaaca ttgctatatt  
gaacaacaac 180  
  
ttgaatacct tgatccagcg ttccaaccac actcaggcca ccaac  
225

<210> 2001  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 2001  
gccgcgtttg tacagacgca tagaccaaca ggggagttta tgtttgaatt  
tgatgaagat 60  
  
gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga  
ggagtttggc 120  
  
caagcctttt cttttgaggc tcagggcggg ctggctaaca ttgctatatt  
gaacaacaac 180  
  
ttgaatacct tgatccagcg ttccaaccac actcaggccg ccaat  
225

<210> 2002  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2002

ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg  
agtttatggt 60

tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga  
ccgtctggca 120

tctggaggag ttggccaag ctttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccaccaa 240

c  
241

<210> 2003  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 2003  
catgtgtcaa cttatgccgc gtttgtacag acgcatagac caacagggga  
gtttatgttt 60

gaatttgatg aagatgagat gttctatgtg gatctggaca agaaggagac  
cgtctggcat 120

ctggaggagt ttggccaaac ctttttccttt gaggctcagg ggcgggctggc  
taacattgct 180

atattgaaca acaacttgaa taccttgatc cagcgttcca accacactca  
ggccaccaac 240

<210> 2004  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2004  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg  
agtttatggt 60

tgaatttgat gacgatgaga tgttctatgt ggatctggac aagaaggaga  
ccgtctggca 120

tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccaccaa 240

c  
241

<210> 2005  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2005  
ccatgtgtca acttatgccg cgtttgtaca gacctataga ccaacagggg  
agtttatgtt 60

tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga  
ccgtctggca 120

tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgcaa 240

t  
241

<210> 2006  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2006  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg  
agtttatgtt 60

tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga  
ccgtctggca 120



tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgcaa 240

t  
241

<210> 2007  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2007  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg  
agtttatgtt 60

tgaatttgat gaagatgagc agttctatgt ggatctggac aagaaggaga  
ccgtctggca 120

tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgcaa 240

t  
241

<210> 2008  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 2008  
gcgtttgtac aaaccatag accaacaggg gagtttatgt ttgaatttga  
tgaagatgag 60

cagttctatg tggatctgga taaaaaggag accgtctggc atctggagga  
gtttggccga 120

gccttttcct ttgaggctca ggcgggctg gctaacattg ctatattgaa  
caacaacttg 180

aataccttga tccagcggtc caaccacact caggccgcca at  
222

<210> 2009  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2009  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacaggag  
agtttatggt 60

tgaatttgat gaagatgagc agttctatgt ggatctggac aagaaggaga  
ccgtctggca 120

tctggaggag ttgggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacttgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgcaa 240

t  
241

<210> 2010  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2010  
ccatgtgtca acttatgccg cgtttgtaca gacccataga ccaacagggg  
agtttatggt 60

tgaatttgat gaagatgagc agttctatgt ggatctggat aagaaggaga  
ccgtctggca 120

tctggaggag ttgggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacttgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgcaa 240

t  
241

<210> 2011  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 2011  
aacttatgcc atgtttgtac agacccatag accaacagga gagtttatgt  
ttgaatttga 60  
  
tgaagatgag cagttctatg tggatctgga taagaaggag accgtctggc  
atctggagga 120  
  
gtttggccga gccttttcct ttgaggctca gggcgggctg gctaacattg  
ctatattgaa 180  
  
caacaacttg aataccttga tccagcgttc caaccacact caggccgcca at  
232

<210> 2012  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2012  
ccatgtgtca acttatgcc a tgtttgtaca gacccataga ccaacaggag  
agtttatggt 60  
  
tgaatttgat gaagatgagc agttctatgt ggatctggac aagaaggaga  
ccgtctggca 120  
  
tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180  
  
tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgccaa 240

t  
241

<210> 2013

<211> 239  
<212> DNA  
<213> Homo sapiens

<400> 2013  
atgtgtcaac ttatgccatg tttgtacaga cccatagacc aacaggggag  
tttatgtttg 60  
  
aat ttgatga agatgagcag ttctatgtgg atctggacaa gaaggagacc  
gtctggcatc 120  
  
tggaggagtt tggccgagcc ttttcctttg aggctcaggg cgggctggct  
aacattgcta 180  
  
tattgaacaa caacttgaat accttgatcc agcgttccaa ccacactcag  
gccgccaat 239

<210> 2014  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 2014  
ccatgtgtca acttatgccg cgtttgtaca gacccataga ccaacagggg  
agtttatggt 60  
  
tgaatttgat gaagatgaga tgttctatgt ggatctggac aagaaggaga  
ccgtctggca 120  
  
tctggaggag tttggccgag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180  
  
tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccgccaa 240

t  
241

<210> 2015  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 2015

gccatgtttg tacagacca tagaccaaca ggggagttta tgtttgaatt  
tgatgaagat 60

gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga  
ggagtttggc 120

caagcctttt cctttgaggc tcagggcggg ctggctaaca ttgctatatc  
gaacaacaac 180

ttgaatacct tgatccagcg ttccaaccac actcaggcca ccaac  
225

<210> 2016

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2016

ccatgtgtca acttatgcc a tgtttgtaca gacccataga ccaacagggg  
agtttatgtt 60

tgaatttgat gaagatgaga tgttctatgt ggatctggac aagaaggaga  
ccgtctggca 120

tctggaggag tttggccaag ccttttcctt tgaggctcag ggcgggctgg  
ctaacattgc 180

tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc  
aggccaccaa 240

c

241

<210> 2017

<211> 225

<212> DNA

<213> Homo sapiens

<400> 2017

gccgcgtttg tacagacgca tagaacaaca ggagagttta tgtttgagtt  
tgatgatgat 60

gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga  
ggagtttggc 120

cgagcctttt cctttgaggc tcagggcggg ctggctaaca ttgctatatt  
gaacaacaac 180

ttgaatatcg ctatccagcg ttccaaccac actcaggccg ccaat  
225

<210> 2018  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2018  
agaattacgt gtaccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgagtcc  
267

<210> 2019  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 2019  
aattacgtgt accagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagtac gcgcgcttcg acagcgacgt  
gggagagtcc 120

cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg gatatgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcagcgccg a  
261

<210> 2020

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2020

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2021

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2021

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2022  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2022  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg acgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2023  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2023  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gttccggaca ggatgtgcag acacaactac  
gagctgggcg 240



ggcccatgac cctgcagcgc cga  
263

<210> 2024  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2024  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaagagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2025  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2025  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt ttgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2026  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2026  
agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggag 240  
  
ggcccatgac cctgcagcgc cgag  
264

<210> 2027  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2027  
agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180  
  
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggagc 240  
  
aggccgtgac cctgcagcgc cgagtcc  
267

<210> 2028  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2028  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180  
  
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctacagcgc cgag  
264

<210> 2029  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2029  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2030  
<211> 267

<212> DNA

<213> Homo sapiens

<400> 2030

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgagtcc  
267

<210> 2031

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2031

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2032

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2032

agaattacgt gtaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2033

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2033

cttttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccggggcg 120

gtgacggagc tggggcgggc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2034

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2034

agaattacgt gcaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2035

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2035

agaattacgt gcaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2036

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2036

gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga  
gttccgggcg 120

gtgacggagc tggggcgggc tgctgcggag tactggaaca gccagaagga  
cctcctggag 180

gagagggcgg cagtgccgga caggatgtgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2037  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2037  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac aggcaggagt acgcgcgctt cgacagcgac  
gtgggagagt 120

tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2038  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2038  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2039

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2039

agaattacgt gcaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2040

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2040

agaattacgt gtaccaggga cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cggcaggagt acgcgcgctt cgacagcgac  
gtgggagagt 120



tccggggcggg gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2041  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2041  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtggggggagt 120

tccggggcggg gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2042  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2042  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2043

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2043

gtgtaccagg gacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctggg  
cgggcccatg 240

accctgcag  
249

<210> 2044

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2044

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2045  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2045  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2046  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2046  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgt cga  
263

<210> 2047

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2047

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2048

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2048

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2049  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2049  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2050  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2050  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2051  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2051  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2052  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 2052  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtgggaga  
gttccgggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga cagagtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcagc gccgag  
256

<210> 2053  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2053  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60  
  
tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtggggga  
gttccgggcg 120  
  
gtgacggagc tggggcgggc tgctgcggag tactggaaca gccagaagga  
catcctggag 180  
  
gagaagcggg cagtgccgga cagggatatgc agacacaact acgagctgga  
cgaggccgtg 240  
  
accctgcagc gccga  
255

<210> 2054  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2054  
agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcagcgc cgag  
264

<210> 2055  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2055  
agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240  
  
ggcccatgac cctgcagcgc cgag  
264

<210> 2056  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2056  
agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180  
  
tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcagcgc cgag  
264

<210> 2057  
<211> 257



<212> DNA

<213> Homo sapiens

<400> 2057

agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2058

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2058

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2059

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2059

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggtgta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2060

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2060

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcag  
257

<210> 2061

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2061

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2062  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2062  
agaattacgt gcaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2063  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2063  
agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2064

<211> 256

<212> DNA

<213> Homo sapiens

<400> 2064

gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcgggc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcagc gccgag  
256

<210> 2065

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2065

cttttccagg gacggcagga atgctaccgc tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gctcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgaggcggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2066

<211> 263

<212> DNA

<213> Homo sapiens

<400> 2066

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cga  
263

<210> 2067

<211> 263

<212> DNA

<213> Homo sapiens

<400> 2067

agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcgggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggtcg 240

ggcccatgac cctgcagcgc cga  
263

<210> 2068

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2068

aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacttc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgcagcgccg a  
261

<210> 2069

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2069

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2070

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2070

gtgcaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga  
cctcctggag 180

gagaagcggg cagtgccgga cagggatatgc agacacaact acgagctgga  
cgaggccgtg 240

accctgcag  
249

<210> 2071

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2071

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2072  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2072  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2073  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2073  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180



ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggggcggg 240

cccatgaccc tgcag  
255

<210> 2074  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2074  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagtac gcgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggggcggg 240

cccatgaccc tgcag  
255

<210> 2075  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2075  
aattacgtgt accagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2076  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2076  
agaattacct tttccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggag 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2077  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2077  
agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggagc 240

aggccgtgac cctgcag  
257

<210> 2078  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2078  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2079  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2079  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2080  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2080  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240  
  
aggccgtgac cctgcag  
257

<210> 2081  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2081  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60  
  
tacatctaca accgggagga gttcgcgcgc ttcgacagcg acgtggggga  
gttccgggcg 120  
  
gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
cctcctggag 180  
  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccgtg 240  
  
accctgcag  
249

<210> 2082  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 2082  
cttttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60  
  
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120  
  
gtgacggagc tggggcgggc tgatgaggac tactggaaca gccagaagga  
cctcctggag 180  
  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga  
cgaggccg 238

<210> 2083  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2083  
aattacgtgc accagttacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60  
  
gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180  
  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240  
  
gccgtgaccc tgcag  
255

<210> 2084  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2084

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcag  
257

<210> 2085

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2085

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

acctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcag  
257

<210> 2086

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2086

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctgtagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc  
260

<210> 2087

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2087

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggtcg 240

ggcccatgac cctgcag  
257

<210> 2088

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2088

aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2089

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2089

aattaagtgt accagttacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2090

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2090

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60



tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2091

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2091

agaattacgt gcaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggacg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2092

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2092

agaattacgt gcaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccggggcggg gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2093  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 2093  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtggggggagt 120

tccggggcggg gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cga  
263

<210> 2094  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 2094  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgc  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac c  
251

<210> 2095

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2095

aattacgtgg accagttacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggacgag 240

gccgtgaccc tgcag  
255

<210> 2096

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2096

aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacatc 180

ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgcag  
255

<210> 2097  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2097  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gcgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga  
gctgggcggg 240

cccatgaccc tgcag  
255

<210> 2098  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2098  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca  
gcgcttcctg 60

gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga  
gctggggcggg 240

cccatgaccc tgcag  
255

<210> 2099  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2099  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga  
gttccgggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga  
cctcctggag 180

gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctggt  
cgggcccatg 240

accctgcag  
249

<210> 2100  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2100  
cttttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt  
cctggagaga 60

tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga  
gttccgggcg 120

gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga  
catcctggag 180

gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctggg  
cgggcccatg 240

accctgcag  
249

<210> 2101  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2101  
agaattacgt gcaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgctgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcag  
257

<210> 2102  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2102  
agaattacct tttccaggga ctgcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggacg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2103  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2103  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgctggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2104  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2104  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2105  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 2105  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac c  
251

<210> 2106  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2106  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcagcgc cgag  
264



<210> 2107  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2107  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcagcac cgag  
264

<210> 2108  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2108  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60  
  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120  
  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggact 180  
  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240  
  
ggcccatgac cctgcagcgc cgag  
264

<210> 2109  
<211> 263

<212> DNA

<213> Homo sapiens

<400> 2109

agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg aggaggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cga  
263

<210> 2110

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2110

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcac cgag  
264

<210> 2111

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2111

gaattacgtg caccagttac ggcaggaatg ctacgcgttt aatgggacac  
agcgcttcct 60

ggagagatac atctacaacc gggaggagtt cgtgcgcttc gacagcgacg  
tgggggagtt 120

ccgggcggtg acggagctgg ggcggcctga tgaggactac tggaacagcc  
agaaggacat 180

cctggaggag gagcgggcag tgccggacag gatgtgcaga cacaactacg  
agctgggcgg 240

gcccatgacc ctgcagcgcc ga  
262

<210> 2112

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2112

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2113

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2113

agaattacgt gtaccagtta cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2114

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2114

agaattacgt gtaccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2115

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2115

agaattacgt gtaccaggga cggcaggaat gctacgcggt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcgt gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaaggaca 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2116

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2116

agaattacgt gcaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccggggcgt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2117

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2117

agaattacgt gtaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgctgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc  
cagaaggacc 180

tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2118

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2118

agaattacgt gtaccagtta cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac  
gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc  
cagaaggaca 180

tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctggacg 240

aggccgtgac cctgcagcgc cgag  
264

<210> 2119

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2119

agaattacct tttccaggga cggcaggaat gctacgcgctt taatgggaca  
cagcgcttcc 60

tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac  
gtgggggagt 120

tccggggcggg gacggagctg gggcggcctg ctgcggagta ctggaacagc  
cagaagcaca 180

tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac  
gagctgggcg 240

ggcccatgac cctgcagcgc cgag  
264

<210> 2120  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2120  
acgcatagac caacaggg  
18

<210> 2121  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 2121  
agtttatgtt tgaatttgat gaa  
23

<210> 2122  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2122  
tctggaggag tttggcca  
18

<210> 2123  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2123  
gacgcataga ccaacagga  
19

<210> 2124  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2124  
gtttatgttt gaatttgatg ac  
22

<210> 2125  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2125  
cacactcagg ccgccaat  
18

<210> 2126  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2126  
ttctatgtgg atctggataa a  
21

<210> 2127  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2127  
ctggaggagt ttggccaaa  
19

<210> 2128



<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2128  
ctggaggagt ttggccg  
17

<210> 2129  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2129  
gccgcgtttg tacagacc  
18

<210> 2130  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2130  
tgaatttgat gaagatgagc a  
21

<210> 2131  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2131  
agttctatgt ggatctggat  
20

<210> 2132  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2132

gacccataga ccaacagga  
19

<210> 2133  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2133  
tgccatgttt gtacagacc  
19

<210> 2134  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2134  
atgtgtcaac ttatgccat  
19

<210> 2135  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2135  
ctggctaaca ttgctatatc  
20

<210> 2136  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2136  
catgtgtcaa cttatgccat  
20

<210> 2137  
<211> 21

<212> DNA  
<213> Homo sapiens  
  
<400> 2137  
aacaacaact tgaatatcgc t  
21

<210> 2138  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2138  
gcagtgccgg acaggg  
16

<210> 2139  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2139  
cagtgccgga cagggta  
17

<210> 2140  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2140  
tcgacagcga cgtggga  
17

<210> 2141  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2141  
caaccgggag gagttcgt  
18

<210> 2142  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2142  
ctggggcggc ctgatga  
17

<210> 2143  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2143  
ggacatcctg gaggagg  
17

<210> 2144  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2144  
cagtgccgga caggatg  
17

<210> 2145  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2145  
acacaactac gagctggg  
18

<210> 2146  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2146  
gctggggcgg cctgac  
16

<210> 2147  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2147  
aggaggagcg ggcagtt  
17

<210> 2148  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2148  
gatacatcta caaccgggaa  
20

<210> 2149  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2149  
ctacaaccgg gaggagttt  
19

<210> 2150  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2150  
ctacaaccgg gaggagc  
17

<210> 2151  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2151  
gctggggcgg cctgag  
16

<210> 2152  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2152  
gagctgggcg ggcca  
16

<210> 2153  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2153  
agaattacgt gtaccagtt  
19

<210> 2154  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2154  
ggcggcctga tgaggac  
17

<210> 2155  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2155

ggaacagcca gaaggacc  
18

<210> 2156  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2156  
acgaggccgt gacccta  
17

<210> 2157  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2157  
ctacaaccgg gaggagtt  
18

<210> 2158  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2158  
aaccgggagg agctcgt  
17

<210> 2159  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2159  
ggacctcctg gaggagg  
17

<210> 2160  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2160  
agaattacgt gcaccagtt  
19

<210> 2161  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2161  
agatacatct acaaccggc  
19

<210> 2162  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2162  
ggagagatac atctacaaca  
20

<210> 2163  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2163  
ggcagtgccg gacagga  
17

<210> 2164  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2164  
gagctggtcg ggccca  
16



<210> 2165  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2165  
gacacaacta cgagctggt  
19

<210> 2166  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2166  
ccgtgaccct gcagcgt  
17

<210> 2167  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2167  
gggcagtgcc ggacaga  
17

<210> 2168  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2168  
ggaggagaag cgggcat  
17

<210> 2169  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2169  
gggcggcctg atgaggt  
17

<210> 2170  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2170  
gacggcagga atgctacc  
18

<210> 2171  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2171  
ggaacagcca gaaggact  
18

<210> 2172  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2172  
ggacttcctg gaggagg  
17

<210> 2173  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2173  
ggaacagcca gaaggacaa  
19

<210> 2174  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2174  
gccagaagga cctcctgt  
18

<210> 2175  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2175  
gacctcctgg aggagag  
17

<210> 2176  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2176  
aattaccttt tccagggact  
20

<210> 2177  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2177  
gagaagcggg cagtgct  
17

<210> 2178  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2178

cccatgaccc tgcagca  
17

<210> 2179  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2179  
tggggcggcc tgagga  
16

<210> 2180  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2180  
gccgtgaccc tgcagca  
17

<210> 2181  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2181  
gaattacgtg caccagtt  
18

<210> 2182  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2182  
actggaacag ccagaagc  
18

<210> 2183  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2183  
accaacaggg gagtttatg  
19

<210> 2184  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2184  
gaatttgatg aagatgagat g  
21

<210> 2185  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2185  
agtttggcca agccttttc  
19

<210> 2186  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2186  
gaccaacagg agagtttatg  
20

<210> 2187  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2187  
gaatttgatg acgatgagat g  
21

<210> 2188  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2188  
atctggataa aaaggagacc  
20

<210> 2189  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2189  
tttggccaaa ccttttcctt  
20

<210> 2190  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2190  
agtttggccg agccttttc  
19

<210> 2191  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2191  
tgtacagacc catagacca  
19

<210> 2192  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2192  
gaagatgagc agttctatgt  
20

<210> 2193  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2193  
cgtttgtaca aacccataga  
20

<210> 2194  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2194  
ggatctggat aagaaggag  
19

<210> 2195  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2195  
acttatgccca tgtttgtaca g  
21

<210> 2196  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2196  
attgctatat cgaacaacaa c  
21

<210> 2197  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2197  
gaatatcgct atccagcgt  
19

<210> 2198  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2198  
taccaggac ggcagga  
17

<210> 2199  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2199  
ccggacaggg tatgcaga  
18

<210> 2200  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2200  
ggacagggtg tgacagaca  
18

<210> 2201  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2201



gacgtgggag agttccg  
17

<210> 2202  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2202  
attacctttt ccagggacg  
19

<210> 2203  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2203  
ggagttcgtg cgcttcg  
17

<210> 2204  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2204  
ggcctgatga ggagtact  
18

<210> 2205  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2205  
ggaggaggag cgggca  
16

<210> 2206  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 2206  
ggacaggatg tgcagaca  
18

<210> 2207  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2207  
gagctgggcg ggccc  
15

<210> 2208  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2208  
cggcctgacg aggagta  
17

<210> 2209  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2209  
cgggcagttc cggacag  
17

<210> 2210  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2210  
caaccgggaa gagttcgt  
18

<210> 2211  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2211  
ggaggagttt gtgcgctt  
18

<210> 2212  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2212  
ggaggagctc gtgcgc  
16

<210> 2213  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2213  
cggcctgagg cggagt  
16

<210> 2214  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2214  
cgggccccatg accctg  
16

<210> 2215  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2215  
tgtaccagtt acggcagg  
18

<210> 2216  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2216  
tgatgaggac tactggaac  
19

<210> 2217  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2217  
cagaaggacc tcctggag  
18

<210> 2218  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2218  
gtgaccctac agcgccg  
17

<210> 2219  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2219  
ggaggagttc gcgcgc  
16

<210> 2220  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2220  
ggagctcgtg cgcttcg  
17

<210> 2221  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2221  
aattacgtgc accagttacg  
20

<210> 2222  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2222  
tacaaccggc aggagtac  
18

<210> 2223  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2223  
atctacaaca ggcaggagt  
19

<210> 2224  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2224

ccggacagga tatgcaga  
18

<210> 2225  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2225  
cgagctggtc gggccc  
16

<210> 2226  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2226  
gccggacaga gtatgcag  
18

<210> 2227  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2227  
gcaccagtta cggcagg  
17

<210> 2228  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2228  
gcgggcattg ccggac  
16

<210> 2229  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2229  
ctgatgaggt gtactggaa  
19

<210> 2230  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2230  
gaatgctacc cgtttaatgg  
20

<210> 2231  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2231  
cagaaggact tcctggag  
18

<210> 2232  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2232  
agaaggacaa cctggagg  
18

<210> 2233  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2233  
gacctcctgt aggagaag  
18

<210> 2234  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2234  
ggaggagagg cgggca  
16

<210> 2235  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2235  
ggaccagtta cggcagg  
17

<210> 2236  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2236  
tccagggact gcaggaat  
18

<210> 2237  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2237  
ggcagtgctg gacaggg  
17

<210> 2238  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 2238  
gctgggcggg cccatg  
16

<210> 2239  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2239  
cggcctgagg aggagta  
17

<210> 2240  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2240  
ggcctgagga ggagtact  
18

<210> 2241  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2241  
agccagaagc acatcctg  
18

<210> 2242  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 2242  
aaacacggtc acctcagggg gat  
23

<210> 2243  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2243  
ggcctgagtg tggttggaac g  
21

<210> 2244  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2244  
ccagctcgta gttgtgtctg ca  
22

<210> 2245  
<211> 39  
<212> DNA  
<213> Homo sapiens

<400> 2245  
aacgttcacc ttaggctgga ccatgtgtca acttatgcc  
39

<210> 2246  
<211> 2  
<212> DNA  
<213> Homo sapiens

<400> 2246  
aa  
2

<210> 2247  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2247

agaattacct tttccag  
17

<210> 2248  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2248  
agaattacgt tttccag  
17

<210> 2249  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2249  
tgaatttgat ggagatgagg  
20

<210> 2250  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2250  
ggtgcttcca gacaccag  
18

<210> 2251  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2251  
ggttgtctgt gggcctca  
18

<210> 2252  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 2252  
cagcccaaca ccctcatc  
18

<210> 2253  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2253  
gctgagcaat gggcacg  
17

<210> 2254  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2254  
cagagactgt ggtctgca  
18

<210> 2255  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2255  
cccttgtgga ggtgaagg  
18

<210> 2256  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2256  
cctgtggtca acatcacc  
18

<210> 2257  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2257  
ccctgtggag gtgaagg  
17

<210> 2258  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2258  
cctggagagg aaggagg  
17

<210> 2259  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2259  
tgcctctgtt ccacagac  
18

<210> 2260  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2260  
agcctgagat tccaa  
15

<210> 2261  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2261  
gccctgacca ccgtgac  
17

<210> 2262  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2262  
caccttcctc cttctga  
18

<210> 2263  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2263  
ttaaacgctc caactctact  
20

<210> 2264  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2264  
ccagacacca agggccc  
17

<210> 2265  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2265  
cagtgttttc caagtctcct  
20

<210> 2266  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2266  
gcactggggc ctggaca  
17

<210> 2267  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2267  
ggtctgcgcc ctggga  
16

<210> 2268  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2268  
ctgaccacgt tgcctctta  
19

<210> 2269  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2269  
cctaaaacat aacttgaaca gt  
22

<210> 2270  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2270

cagacaattt agatttgacc g  
21

<210> 2271  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2271  
tcaccctcct cccttctt  
18

<210> 2272  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2272  
tgtaccagtc ttacgggtct  
19

<210> 2273  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2273  
aggtggagca ctgggga  
17

<210> 2274  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2274  
ggtccctctg gccagtt  
17

<210> 2275  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 2275  
ccaagtctcc cgtgacg  
17

<210> 2276  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2276  
gcactgacaa acatcgcc  
18

<210> 2277  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2277  
gggggtgtac cgggca  
16

<210> 2278  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2278  
cgcaggggcg gcctgt  
16

<210> 2279  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2279  
agggggcccg ggcgt  
15

<210> 2280  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2280  
gggcgtcggg ggacag  
16

<210> 2281  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2281  
gggcgtcggg ggacaga  
17

<210> 2282  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2282  
cagatttcta tccaagccac  
20

<210> 2283  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2283  
gcgacgtggg ggtgtat  
17

<210> 2284  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2284  
cgcaggggcg gcctag  
16

<210> 2285  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2285  
gcaggggcg cctagc  
16

<210> 2286  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2286  
cgcaggggcg gcctga  
16

<210> 2287  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2287  
gcaggggcg cctgac  
16

<210> 2288  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2288  
gaaggacatc ctggagga  
18

<210> 2289  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2289  
ggacatcctg gagaggaaa  
19

<210> 2290  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2290  
ctccccagcg tggagac  
17

<210> 2291  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2291  
ccggtgggtt cggaatgg  
18

<210> 2292  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2292  
ctgctggggc tgcctga  
17

<210> 2293  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2293

cttcgacagc gacgtgga  
18

<210> 2294  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2294  
cgctggggcc gcctga  
16

<210> 2295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2295  
ctccccagca tggagac  
17

<210> 2296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2296  
caccacagcc tccagaa  
17

<210> 2297  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2297  
aaccgagagg agtacgca  
18

<210> 2298  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 2298  
gctggggccg cctgc  
15

<210> 2299  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2299  
aggacccggg cggagt  
16

<210> 2300  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2300  
cctccagaac cccatcat  
18

<210> 2301  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2301  
cggagcgcgt gcgtct  
16

<210> 2302  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2302  
gacgccgctg gggcc  
15

<210> 2303  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2303  
cagaaggaag tcctggaga  
19

<210> 2304  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2304  
tacttcacca acgggacc  
18

<210> 2305  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2305  
cgggcggagt tggacac  
17

<210> 2306  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2306  
cgtcggtgga caccgta  
17

<210> 2307  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2307  
gtgggggtgt atcgggt  
17

<210> 2308  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2308  
tgactcccca gcatgcc  
17

<210> 2309  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2309  
ggaaatgact ccccagca  
18

<210> 2310  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2310  
ggaacagcca gaaggaaga  
19

<210> 2311  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2311  
accaacggga ccgagct  
17



<210> 2312  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2312  
gccgctgggg cggct  
15

<210> 2313  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2313  
ccatgtgcta cttcaccaat  
20

<210> 2314  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2314  
tgtatcgggc ggtgacc  
17

<210> 2315  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2315  
gtttcgggaat gaccaggaa  
19

<210> 2316  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2316

gtgcgtcttg tgaccagat  
19

<210> 2317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2317  
ggcgttccgc gggatct  
17

<210> 2318  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2318  
taggaatggg gactggact  
19

<210> 2319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2319  
gagcgcgtgc gtcttgta  
18

<210> 2320  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2320  
caggccagat caaagtcca  
19

<210> 2321  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 2321  
cgtgggggtg taccgc  
16

<210> 2322  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2322  
aggaagtcct ggagagga  
18

<210> 2323  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2323  
acacaactac gaggtggg  
18

<210> 2324  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2324  
gtgcgtcttg taaccagat  
19

<210> 2325  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2325  
gcaggggcgg cctgtc  
16

<210> 2326  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2326  
caactacgag gtggcggt  
18

<210> 2327  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2327  
gcggcctgat gccgaga  
17

<210> 2328  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2328  
gggcggtgac gccgct  
16

<210> 2329  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2329  
cgctggggcg gcctga  
16

<210> 2330  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2330  
gggacccggg cggagt  
16

<210> 2331  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2331  
ggagatgagg agttctacg  
19

<210> 2332  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2332  
cagacaccag gggccatt  
18

<210> 2333  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2333  
gtgggcctca tgggcatt  
18

<210> 2334  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2334  
caccctcatc tgtcttgtg  
19

<210> 2335  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2335  
aatgggcacg cagtcaca  
18

<210> 2336  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2336  
ggtctgcacc ctgggg  
16

<210> 2337  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2337  
gaggtgaagg cattgtgg  
18

<210> 2338  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2338  
caacatcacc tggctgag  
18

<210> 2339  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2339

ggaaggaggc tgcctgg  
17

<210> 2340  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 2340  
ctgttccaca gacttagacc ttt  
23

<210> 2341  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2341  
gagattccaa cacctatgtc  
20

<210> 2342  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2342  
caccgtgacg agccctt  
17

<210> 2343  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2343  
ctcccttctg atgatgagat  
20

<210> 2344  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2344  
caactctact gctgctacc  
19

<210> 2345  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2345  
catcatccga ggcctgc  
17

<210> 2346  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2346  
caagtctcct gtgacgct  
18

<210> 2347  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2347  
ggcctggaca agcctctt  
18

<210> 2348  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2348  
cgccctggga ttgtctgt  
18



<210> 2349  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2349  
gttgcctctt atggtgtaa  
20

<210> 2350  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2350  
aacttgaaca gtctgattaa ac  
22

<210> 2351  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2351  
acgtttgacc ggcaatttgc ac  
22

<210> 2352  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2352  
ctcccttctt ctgaggag  
18

<210> 2353  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2353  
cttacggtct ctctggcc  
18

<210> 2354  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2354  
gcactgggga ctggacaa  
18

<210> 2355  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2355  
ctggccagtt cacccatg  
18

<210> 2356  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2356  
cccgtgacgc tgggtc  
16

<210> 2357  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2357  
caaacatcgc cgtgacaaaa  
20

<210> 2358  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2358  
taccgggcag tgacgcc  
17

<210> 2359  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2359  
gcggcctgtt gccgag  
16

<210> 2360  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2360  
ccgggcgtcg gtggac  
16

<210> 2361  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2361  
ggtggacagg gtgtgca  
17

<210> 2362  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2362

ggtggacaga gtgtgcag  
18

<210> 2363  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2363  
tccaagccac atcaaagtc  
19

<210> 2364  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2364  
gggggtgtatc gggcgg  
16

<210> 2365  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2365  
gcggcctagc gccgag  
16

<210> 2366  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2366  
cggcctagcg ccgagt  
16

<210> 2367  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 2367  
gcggcctgac gccgag  
16

<210> 2368  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2368  
cggcctgacg ccgagt  
16

<210> 2369  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2369  
gcggcctgat gccgag  
16

<210> 2370  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2370  
cctggaggag gaccgg  
16

<210> 2371  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2371  
gagaggaaac gggcggc  
17

<210> 2372  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2372  
gcgtggagac gtctacac  
18

<210> 2373  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2373  
tcggaatggc caggagg  
17

<210> 2374  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2374  
gctgcctgac gccgag  
16

<210> 2375  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2375  
cgacgtggag gtgtacc  
17

<210> 2376  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2376  
gccgcctgac gccgag  
16

<210> 2377  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2377  
gcatggagac gtctacac  
18

<210> 2378  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2378  
gcctccagaa ccccatca  
18

<210> 2379  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2379  
ggagtacgca cgcttcga  
18

<210> 2380  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2380  
ccgcctgccg ccgag  
15

<210> 2381  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2381  
gggcggagtt ggacacg  
17

<210> 2382  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2382  
accccatcat cgtggagt  
18

<210> 2383  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2383  
gcgtgcgtct tgtgacca  
18

<210> 2384  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2384  
gctggggccg cctgac  
16

<210> 2385  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2385



cctggagagg acccgg  
16

<210> 2386  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2386  
aacgggaccg agcgcg  
16

<210> 2387  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2387  
agttggacac ggtgtgca  
18

<210> 2388  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2388  
ggacaccgta tgcagaca  
18

<210> 2389  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2389  
gtatcgggtg gtgacgc  
17

<210> 2390  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2390  
cccagcatgc cgtgtctac  
19

<210> 2391  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2391  
tccccagcat ggagacg  
17

<210> 2392  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2392  
agaaggaaga cctggagag  
19

<210> 2393  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2393  
gaccgagctc gtgcgg  
16

<210> 2394  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2394  
ggggcggctt gacgcc  
16

<210> 2395  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2395  
cttcaccaat gggacgga  
18

<210> 2396  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2396  
gcggtgaccc cgcagg  
16

<210> 2397  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2397  
tgaccaggaa gagacagc  
18

<210> 2398  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2398  
tgtgaccaga tacatctata a  
21

<210> 2399  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2399  
gcgggatctt gcagagg  
17

<210> 2400  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2400  
tgactggact ttccagatc  
19

<210> 2401  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2401  
gcgtcttgta accagacac  
19

<210> 2402  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2402  
tcaaagtcca gtggtttcg  
19

<210> 2403  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2403  
gtgtaccgcg cggtgac  
17

<210> 2404  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2404  
ggagaggacc cgggcg  
16

<210> 2405  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2405  
cgagggtggg taccgc  
16

<210> 2406  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2406  
gcgtcttgta accagatac  
19

<210> 2407  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 2407  
tgtaaccaga tacatctata ac  
22

<210> 2408  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2408

cggcctgtcg ccgagt  
16

<210> 2409  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2409  
ccgggcggag ttggac  
16

<210> 2410  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2410  
ggtggcggttc cgcggg  
16

<210> 2411  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2411  
gatgccgaga actggaac  
18

<210> 2412  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2412  
acgccgctgg ggcgg  
15

<210> 2413  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 2413  
ggtgaggtaa ctgatcttg  
19

<210> 2414  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 2414  
tccttctggc tgttccagta ctc  
23

<210> 2415  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 2415  
atgatacctaa acaaagctct g  
21

<210> 2416  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 2416  
tgtgctactt caccaacggg acg  
23

<210> 2417  
<211> 768  
<212> DNA  
<213> Homo sapiens

<400> 2417  
atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt  
gatgagcccc 60

tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatattgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccttggt ggttgtctgt gggcctcgtg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaagggc cattgtga  
768

<210> 2418

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2418

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt  
gatgagcccc 60



tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatattgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccttggt ggttgtctgt gggcctcgtg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaggggc cattgtga  
768

<210> 2419

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2419

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt  
gatgagcccc 60

tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatattgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgtgccctgg ggttgtctgt gggcctcatg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaagggc cattgtga  
768

<210> 2420

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2420

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt  
gatgagcccc 60

tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgtgccctgg ggttgtctgt gggcctcatg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaagggc cattgtga  
768

<210> 2421

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2421

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt  
gatgagcccc 60

tgtggaggtg aagacattgt ggctgaccat gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gttcacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctggaga agaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcacgcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgtgccctgg ggttgtctgt gggcctcgtg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaagggc ccttgtga  
768

<210> 2422

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2422

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccaccat  
gatgagccct 60

tgtggagggtg aaggcattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tggaaggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgcaccctgg ggttgtctgt gggcctcgtg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga caccaagggc cattgtga  
768

<210> 2423

<211> 613

<212> DNA

<213> Homo sapiens

<400> 2423

atgatcctaa acaaagctct gctgctgggg gccctcgctc tgaccacat  
gatgagccct 60

tgtggaggtg aaggcattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tgagggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgatga cactgggtca gcccacacc ctcatttgct ttgtggacaa  
catctttcct 420

cctgtggtca acatcacctg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact ggg  
613

<210> 2424

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2424

atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccat  
gatgagcccc 60

tgtggaggtg aaggcattgt ggctgaccac gttgcctctt gtggtgtaaa  
cttgtaccag 120

ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga  
gttctacgtg 180

gacctggaga ggaaggagac tgccctggcgg tggcctgagt tcagcaaatt  
tgagggtttt 240

gacccgcagg gtgcactgag aaacatggct gtggcaaaac acaacttgaa  
catcatgatt 300

aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgtga cactgggtca gccaacacc ctcatttgtc ttgtggacaa  
catctttcct 420

cctgtgggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccctgg ggttggtctgt gggcctcgtg ggcattgtgg tgggcactgt  
cttcatcatc 720

caaggcctgc gttcagttgg tgcttccaga  
750

<210> 2425

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2425

ctgaccacgt tgcctcttgt ggtgtaaact tgtaccagtt ttacgggtccc  
tctggccagt 60

acacccatga atttgatgga gatgagcagt tctacgtgga cctggagagg  
aaggaggctg 120

cctggcggtg gcctgagttc agcaaatttg gaggttttga cccgcagggt  
gcactgagaa 180

acatggctgt ggcaaaacac aacttgaaca tcatgattaa acgctacaac  
tctaccgctg 240

ctaccaatg  
249

<210> 2426  
<211> 765  
<212> DNA  
<213> Homo sapiens

<400> 2426  
atgatacctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt  
gatgagccct 60

tgtggaggtg aagacattgt ggctgaccac gttgcctctt acggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gttcacccat gaatttgatg gagacgagga  
gttctatgtg 180

gacctggaga ggaaggagac tgtctggaag ttgcctctgt tccacagact  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtg ctaaaacata acttgaacat  
cctgattaaa 300

cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacac tgggtcagcc caacaccctc atctgtcttg tggacaacat  
ctttcctcct 420

gtgggtcaaca tcacctggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cttcctccct 540

tctgctgatg agatttatga ctgcaagggtg gagcactggg gcctggatga  
gcctcttctg 600

aaacactggg agcctgagat tccagcacct atgtcagagc tcacagagac  
tgtgggtctgt 660



gccctgggggt tgtctgtggg cctcgtgggc attgtggtgg ggaccgtctt  
gatcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2427

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2427

atgatacctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt  
gatgagccct 60

tgtggaggtg aagacattgt ggctgaccat gttgcctctt acggtgtaaa  
cttgtaccag 120

tcttatggtc cctctgggca gtacagccat gaatttgatg gagacgagga  
gttctatgtg 180

gacctggaga ggaaggagac tgtctggcag ttgcctctgt tccgcagatt  
tagaagattt 240

gacccgcaat ttgcactgac aaacatcgct gtgctaaaac ataacttgaa  
catcgtgatt 300

aaacgctcca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgtga cactgggtca gccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga  
tgagcctctt 600

ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccctgg ggttgtctgt gggcctcgtg ggcattgtgg tggggaccgt  
cttgatcatc 720

cgaggcctgc gttcagttgg tgcttccaga caccaagggc ccttgtga  
768

<210> 2428

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2428

atgatacctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt  
gacgagccct 60

tgtggaggtg aagacattgt ggctgaccat gttgcctctt acggtgtaaa  
cttgtaccag 120

tcttatggtc cctctgggca gtacagccat gaatttgatg gagacgagga  
gttctatgtg 180

gacctggaga ggaaggagac tgtctggcag ttgcctctgt tccgcagatt  
tagaagattt 240

gacccgcaat ttgcactgac aaacatcgct gtgctaaaac ataacttgaa  
catcgtgatt 300

aaacgctcca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgtga cactgggtca gccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtgggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgatg atgagattta tgactgcaag gtggagcact ggggcctgga  
tgagcctctt 600

ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccctgg ggttgtctgt gggcctcgtg ggcattgtgg tggggaccgt  
cttgatcatc 720

cgaggcctgc gttcagttgg tgcttccaga caccaagggc ccttgtga  
768

<210> 2429

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2429

atgatacctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt  
gatgagccct 60

tgtggaggtg aagacattgt ggctgaccat gttgcctctt acggtgtaaa  
cttgtaccag 120

tcttatggtc cctctgggca gtacagccat gaatttgatg gagacgagga  
gttctatgtg 180

gacctggaga ggaaggagac tgtctggcag ttgcctctgt tccgcagatt  
tagaagattt 240

gacccgcaat ttgcaactgac aaacatcgct gtgctaaaac ataacttgaa  
catcgtgatt 300

aaacgctcca actctaccgc tgctaccaat gaggttcctg aggtcacagt  
gttttccaag 360

tctcccgtga cactgggtca gccaacacc ctcatctgtc ttgtggacaa  
catctttcct 420

cctgtgggtca acatcacctg gctgagcaat gggcactcag tcacagaagg  
tgtttctgag 480

accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct  
caccttcctc 540

ccttctgatg atgagattta tgactgcaag gtggagcact ggggcctgga  
tgagcctctt 600

ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga  
gactgtggtc 660

tgcgccctgg ggttgctctgt gggcctcgtg ggcattgtgg tggggaccgt  
cttgatcatc 720

cgaggcctgc gttcagttgg tgcttccaga caccaagggc ccttgtga  
768

<210> 2430

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2430

atgatacctaa acaaagctct gctgctgggg gcccttgccc tgaccaccgt  
gatgagcccc 60

tgtggaggtg aagacattgt ggctgaccat gttgcctctt atggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gtacacccat gaatttgatg gagacgagca  
gttctacgtg 180

gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtg aaaaaacaca acttgaacat  
cctgattaaa 300

cgctccaact ctactgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat  
ctttcctcct 420

gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaaggtgt  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cttcctccct 540

tctgctgatg agatttatga ctgcaaggtg gagcactggg gcctggacga  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtgggtctgc 660

gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2431  
<211> 528  
<212> DNA  
<213> Homo sapiens

<400> 2431  
ctgaccatgt tgcctcttat ggtgtaaact tgtaccagtc ttacgggtccc  
tctggccagt 60

acacccatga atttgatgga gacgagcagt tctacgtgga cctggggagg  
aaggagactg 120

tctgggtgttt gcctgttctc agacaattta gatttgacct gcaatttgca  
ctgacaaaca 180

tcgctgtgac aaaacacaac ttgaacatcc tgattaaacg ctccaactct  
actgctgcta 240

ccaatgaggt tcctgaggtc acagtgtttt ccaagtctcc tgtgacgctg  
ggtcagccca 300

acaccctcat ctgtcttgtg gacaacatct ttccctcctgt ggtcaacatc  
acatggctga 360

gcaatgggca ctcagtcaca gaagggtgtt ctgagaccag cttcctctcc  
aagagtgatc 420

attccttctt caagatcagt tacctcacct tcctcccttc tgctgatgag  
atttatgact 480

gcaaggtgga gcactggggc ctggacgagc ctcttctgaa aactggg  
528

<210> 2432  
<211> 765  
<212> DNA  
<213> Homo sapiens

<400> 2432

atgatacctaa acaaagctct gatgctgggg gcccttgccc tgaccaccgt  
gatgagcccc 60

tgtggagggtg aagacattgt ggctgaccac gtcgcctctt atggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtc ctaaaacata acttgaacag  
tctgattaaa 300

cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat  
ctttcctcct 420

gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cctcctccct 540

tctgctgagg agagttatga ctgcaagggtg gagcactggg gcctggacaa  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtgggtctgc 660

gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcggt cagttgggtgc ttccagacac caagggccct tgtga  
765

<210> 2433

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2433

gaagacattg tggctgacca cgttgcctct tatggtgtaa acttgtacca  
gtcttacggt 60

ccctctggcc agtacacca tgaatttgat ggagatgagc agttctacgt  
ggacctgggg 120

aggaaggaga ctgtctggtg ttgacctgtt ctcagacaat ttagatttga  
cccgaattt 180

gcactgacaa acatcgctgt cctaaaacat aacttgaaca gtctgattaa  
acgctccaac 240

tctaccgctg ctaccaat  
258

<210> 2434

<211> 222

<212> DNA

<213> Homo sapiens

<400> 2434

ggtgtaaact tgtaccagtc ttacggctccc tctggccagt acacccatga  
atttgatgga 60

gatgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt  
gcctgttctc 120

agacaattta gatttgaccg gcaatttgca ctgacaaaca tcgctgtcct  
aaaacataac 180

ttgaacagtc tgattaaacg ctccaactct accgctgcta cc  
222

<210> 2435

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2435

atgatcctaa acaaagctct gatgctgggg gcccttgccc tgaccaccgt  
gatgagcccc 60

tgtggagggtg aagacattgt ggctgaccac gtgcctctt atggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctgggga ggaaggagac tgtctgggtgt ttgcctgttc tcagacaatt  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtc ctaaaacata acttgaacag  
tctgattaaa 300

cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat  
ctttcctcct 420

gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cctcctccct 540

tcttctgagg agagttatga ctgcaagggtg gagcactggg gcctggacaa  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtggtctgc 660

gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2436

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2436

ctgaccacgt cgcctcttat ggtgtaaact tgtaccagtc ttacgggtctc  
tctggccagt 60



acacccatga atttgatgga gatgagcagt tctacgtgga cctggggagg  
aaggagactg 120

tctgggtgttt gcctgtttctc agacaattta gatttgacct gcaatttgca  
ctgacaaaca 180

tcgctgtcct aaaacataac ttgaacagtc tgattaaacg ctccaactct  
accgctgcta 240

ccaatg  
246

<210> 2437

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2437

atgatacctaa acaaagctct gatgctgggg acccttgccc tgaccaccgt  
gatgagcccc 60

tgtggagggtg aagacattgt ggctgaccac gtcgcctctt atggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca  
gttctacgtg 180

gacctgggga ggaaggagac tgtctgggtgt ttgcctgttc tcagacaatt  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtc ctaaaacata acttgaacag  
tctgattaaa 300

cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat  
ctttcctcct 420

gtgggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cctcctccct 540

tctgctgagg agagttatga ctgcaagggtg gagcactggg gactggacaa  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtggtctgc 660

gccctgggggt tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2438

<211> 765

<212> DNA

<213> Homo sapiens

<400> 2438

atgatacctaa acaaagctct gctgctgggg gcccttgccc tgaccaccgt  
gatgagcccc 60

tgtggagggtg aagacattgt ggctgaccat gttgcctctt atggtgtaaa  
cttgtaccag 120

tcttacggtc cctctggcca gttcacccat gaatttgatg gagacgagca  
gttctacgtg 180

gacctgggga ggaaggagac tgtctggtgt ttgcctgttc tcagacaatt  
tagatttgac 240

ccgcaatttg cactgacaaa catcgctgtg acaaaacaca acttgaacat  
cctgattaata 300

cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt  
ttccaagtct 360

cccgtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat  
ctttcctcct 420

gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg  
ttctgagacc 480

agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac  
cttcctccct 540

tctgctgatg agatttatga ctgcaagggtg gagcactggg gcctggacga  
gcctcttctg 600

aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac  
tgtggtctgc 660

gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt  
catcatccga 720

ggcctgcgtt cagttggtgc ttccagacac caagggccct tgtga  
765

<210> 2439

<211> 227

<212> DNA

<213> Homo sapiens

<400> 2439

ggtgtaaact tgtaccagtc ttacgggtccc tctggccagt tcacccatga  
atttgatgga 60

gacgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt  
gcctgttctc 120

agacaattta gatttgaccc gcaatttgca ctgacaaaca tcgccgtgac  
aaaacacaac 180

ttgaacatcc tgattaaacg ctccaactct accgctgcta ccaatga  
227

<210> 2440

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2440

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cagtgcgcc 120

gcaggggagg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcgtcgggtg gacaggggtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gaggagagtg gagccacacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg atctgctcgg tgacagatth ctatccaagc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2441

<211> 244

<212> DNA

<213> Homo sapiens

<400> 2441

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gagg

244

<210> 2442

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2442

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcgtcggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg atctgctcgg tgacagatth ctatccaagc cacatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2443

<211> 245

<212> DNA

<213> Homo sapiens

<400> 2443

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gagga  
245

<210> 2444  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2444  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gacacatcta 60

taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcaggggcgg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg  
ggatcctgca 240

gaggagagtg gagccacacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctcatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2445  
<211> 148  
<212> DNA  
<213> Homo sapiens

<400> 2445

gacggagcgc gtgcggggtg tgaccagaca catctataac cgagaggagt  
acgtgcgctt 60

cgacagcgac gtgggggtgt atcgggcggt gacgccgcag gggcggcctg  
atgccgagta 120

ctggaacagc cagaaggaag tcctggag  
148

<210> 2446

<211> 212

<212> DNA

<213> Homo sapiens

<400> 2446

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagaa gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcagggggcgg cctagcgccg agtactggaa cagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcgggtg gacaggggtgt gcagacacaa ct  
212

<210> 2447

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2447

gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggctg cctgccgccg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagatTT ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2448

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2448

gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggctg cctgccgccg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagatTT ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatggc caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaatggtga 420



ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2449

<211> 449

<212> DNA

<213> Homo sapiens

<400> 2449

gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca  
gaagcatcta 60

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgct 120

gctggggctg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggaaacg 180

ggcggcggtg gacaggggtg gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgaccc catccaggac agaggccctc aaccaccaca acctgctggt  
ctgctcggtg 300

acagatttct atccagccca gatcaaagtc cgggtggtttc ggaatggcca  
ggaggagaca 360

gctggcggtg tgtccacccc ccttattagg aatggtgact ggaccttcca  
gatcctggtg 420

atgctggaaa tgactcccca gcgtggaga  
449

<210> 2450

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2450

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtg  
529

<210> 2451

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2451

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2452  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2452  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300  
  
caacctgctg gtctgctcag tgacagatctt ctatccagcc cagatcaaag  
tccggtggtt 360  
  
tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420  
  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480  
  
ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2453  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2453  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtg  
529

<210> 2454

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2454

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2455  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2455  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120  
  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggaccgc 180  
  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300  
  
caacctgctg gtctgctcag tgacagatctt ctatccagcc cagatcaaag  
tccggtggtt 360  
  
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420  
  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480  
  
ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtg  
529

<210> 2456  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2456  
gggcatgtgc tacttcacca acgggaccga gcgcgtgcgg ggtgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagatth ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtgg  
529

<210> 2457

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2457

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2458

<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2458  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gctggggccg cctgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180  
  
ggcgtcgggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcgag  
248

<210> 2459  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2459  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
tggtgacgcc 120  
  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggaccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240  
  
gcggcga  
247

<210> 2460  
<211> 248  
<212> DNA

<213> Homo sapiens

<400> 2460

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtccttg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2461

<211> 526

<212> DNA

<213> Homo sapiens

<400> 2461

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtccttg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagccacacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420



ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatgccg  
tctacacctg 480

ccacgtggag caccacagcc tccagaacct catcacctg gagtgg  
526

<210> 2462

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2462

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtg  
529

<210> 2463

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2463

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2464

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2464

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2465

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2465

ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gagtacgcac gcttcgacag cgacgtggag gtgtaccggg  
cggtagacgcc 120

gctggggccg cctgacgccg agtactggaa cagccagaag gaagacctgg  
agaggaccgg 180

ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgag  
248

<210> 2466

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2466

gggcatgtgc tacttcacca acgggaccga gctcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtagacgcc 120

gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcgggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtgg  
529

<210> 2467

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2467

gggcatgtgc tacttcacca acgggaccga gcgcgtgcgg ggtgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg  
aggaggaccg 180

ggcgtcgggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca  
cgaccttgca 240

gcggcgagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtgg  
529

<210> 2468

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2468

ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60

taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gcaggggagg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggacccg 180

agcggagttg gacacggtgt gcagacacaa ctacgagggtg gcgttccgag  
ggatcttgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta  
ggaacggtga 420

ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2469

<211> 204

<212> DNA

<213> Homo sapiens

<400> 2469

gccatgtgct acttcaccaa cgggacggag cgcggtgcgt atgtgaccag  
atacatctat 60

aaccgagagg aggacgtgcg cttcgacagc gacgtggggg tgtatcgggc  
ggtgaccccg 120

caggggaggc ctgacgccga gtactggaac agccagaagg acatcctgga  
gaggaccgga 180

gcggagttgg acacggtgtg caga  
204

<210> 2470

<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2470  
ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca  
gatacatcta 60  
  
taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120  
  
gcaggggacg cctgacgccg agtactggaa cagccagaag gacatcctgg  
agaggacccg 180  
  
agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240  
  
gaggagagtg gagccacacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300  
  
caacctgctg gtctgctcgg tgacagatctt ctatccaggc cagatcaaag  
tccggtggtt 360  
  
tcggaatgac caggaagaga cagctggcgt tgtgtccacc ccccttatta  
ggaacggtga 420  
  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag  
acgtctacac 480  
  
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2471  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2471  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgatgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtg  
529

<210> 2472

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2472

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgatgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccggtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2473

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2473

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgcg  
ggatcctgca 240

gaggagagtg gagcccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag  
tccagtggtt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2474

<211> 289



<212> DNA

<213> Homo sapiens

<400> 2474

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc  
ggatcctgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc  
289

<210> 2475

<211> 289

<212> DNA

<213> Homo sapiens

<400> 2475

gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggacg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc  
ggatcctgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc  
289

<210> 2476

<211> 173

<212> DNA

<213> Homo sapiens

<400> 2476

ggacggagcg cgtgcgctctt gtaaccagat acatctataa ccgagaggag  
tacgcgcgct 60

tcgacagcga cgtgggggtg taccgggcgg tgacgccgca ggggcggcct  
gtcgccgagt 120

actggaacag ccagaaggaa gtcctggaga ggacccgggc ggagttggac acg  
173

<210> 2477

<211> 176

<212> DNA

<213> Homo sapiens

<400> 2477

ggacggagcg cgtgcgctctt gtaaccagat acatctataa ccgagaggag  
tacgcgcgct 60

tcgacagcga cgtgggggtg taccgggcgg tgacgccgca ggggcggcct  
gttgccgagt 120

actggaacag ccagaaggaa gtcctggaga ggacccgggc ggcggtggac  
agggtg 176

<210> 2478

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2478

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggvcgg cctgatgccg agtactggaa cagccagaag gaagtccctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgagggtg gggtagccgcg  
ggatcc 236

<210> 2479  
<211> 236  
<212> DNA  
<213> Homo sapiens

<400> 2479  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120  
  
gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatct 236

<210> 2480  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2480  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60  
  
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120  
  
gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180  
  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgcg  
ggatcctgca 240  
  
gaggagagtg gagccacacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300  
  
caacctgctg gtctgctcgg tgacagatctt ctatccaggc cagatcaaag  
tccagtgggt 360  
  
tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2481

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2481

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacgg cctagcgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagag  
248

<210> 2482

<211> 244

<212> DNA

<213> Homo sapiens

<400> 2482

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacgg cctgatgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatccttgca 240

gagg  
244

<210> 2483  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2483  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacgc cctgatgccg agtactggaa cagccagaag gaagtccttg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatccttgca 240

gaggagag  
248

<210> 2484  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 2484  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggacgc cctgttgccg agtactggaa cagccagaag gaagtccttg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgcg  
ggatccttgca 240

gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc  
tcaaccacca 300

caacctgctg gtctgctcg tgacagattt ctatccaggc cagatcaaag  
tccagtgggt 360

tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta  
ggaatggtga 420

ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag  
atgtctacac 480

ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg  
529

<210> 2485

<211> 234

<212> DNA

<213> Homo sapiens

<400> 2485

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtagacgc 120

gcaggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagtgt gacacggtgt gcagacacaa ctacgagggt gcgttccgcg ggat  
234

<210> 2486

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2486

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtccctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatccttgca 240

gaggagag  
248

<210> 2487

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2487

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtccctgg  
agaggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgcg  
ggatccttgca 240

gaggagag  
248

<210> 2488

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2488

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcaggggacg cctgatgccg agaactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagag  
248

<210> 2489  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 2489  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gacacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggacg cctggtgccg agtactggaa cagccagaag gaagtcctgg  
agggggcccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccg  
229

<210> 2490  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2490  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg  
cggtgacgcc 120

gcaggggacg cctggtgccg agtactggaa cagccagaag gaagtcctgg  
agaggacccg 180



ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggag  
246

<210> 2491  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2491  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg  
cggtgacgcc 120

gctggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg  
ggatcttgca 240

gaggagag  
248

<210> 2492  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 2492  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca  
gatacatcta 60

taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg  
cggtgacgcc 120

gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg  
aggggacccg 180

ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgc  
229

<210> 2493  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2493  
atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60  
  
gtgctgagct cccactggc tttggctggg gacacccgac cacgtttctt  
gtggcagctt 120  
  
aagtttgaat gtcatttctt caatgggacg gagcgggtgc ggttgctgga  
aagatgcac 180  
  
tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240  
  
gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300  
  
cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360  
  
cagcggcgag  
370

<210> 2494  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2494  
cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttgctgga aagatgcac tataaccaag aggaatccgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2495

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2495

ggggacaccc gaccacgttt cttgtggcag ctttaagtttg aatgtcattt  
cttcaatggg 60

acggagcggg tgcggttgct ggaaagatgc atctataacc aagaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcgggccg cgggtggacac  
ctattgcaga 240

cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2496

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2496

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgccg tggacaccta ttgcagacac  
aactacgggg 240

ctgtgg  
246

<210> 2497  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2497  
atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttggctggg gacacccgac cacgtttctt  
gtggcagctt 120

aagtttgaat gtcatttctt caatgggacg gagcgggtgc ggttgctgga  
aagatgcatc 180

tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct  
ggaagacgag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2498  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2498  
ggggacaccc gaccacgttt cttgtggcag ctttaagtttg aatgtcattt  
cttcaatggg 60

acggagcggg tgcggttgct ggaaagatgc atctataacc aagaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcgggccc cggtggacaa  
ttactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2499

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2499

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtga 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2500

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2500

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2501  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2501  
cacgtttcct gtgggagctt aagtttgaat gtcatttcct caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2502  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2502  
cacgtttcct gtggcagctt aagtttgaat gtcatttcct caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2503

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2503

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2504

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2504

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg  
gagcgggtgc 60

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2505  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2505  
ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgcgc tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc gggtaggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2506  
<211> 265  
<212> DNA  
<213> Homo sapiens

<400> 2506  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240



ttgtggagag cttcacagtg cagcg  
265

<210> 2507  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2507  
ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60  
  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120  
  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180  
  
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ctactgcaga 240  
  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2508  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2508  
ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60  
  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120  
  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180  
  
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240  
  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2509  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2509  
tactctacgt ctgagtgtca tttcttcaat gggacggagc gggcgcggtt  
cctggagaga 60  
  
tacttccata accaggagga gaacgtgcgc ttcgacagcg acgtggggga  
gtaccgggcg 120  
  
gtgacggagc tggggcgggc tgatgccgag tactggaaca gccagaagga  
cctcctggag 180  
  
cagaagcggg gccgggtgga caactactgc agacacaact acggggttgt  
ggagagcttc 240  
  
acagtgcagc ggcga  
255

<210> 2510  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2510  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggtacctgga cagatacttc cataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2511  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2511  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2512  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2512  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2513  
<211> 258

<212> DNA

<213> Homo sapiens

<400> 2513

ttctttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg  
ggtgcggtac 60

ctggacagat acttccataa ccaggaggag aacgtgcgct tcgacagcga  
cgtgggggag 120

taccgggcggtg tgacggagct ggggcggcct gatgccgagt actggaacag  
ccagaaggac 180

ctcctggagc agaagcgggg ccgggtggac aactactgca gacacaacta  
cggggttgtg 240

gagagcttca cagtgcag  
258

<210> 2514

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2514

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2515

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2515

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacct cctggagcag aagcggggcc gggaggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2516

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2516

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggtacctg 60

gacagatact tccataaccg ggaggagAAC gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagcgg  
258

<210> 2517

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2517

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctgc  
tgcggagcac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc gggcggacaa  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2518

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2518

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2519

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2519

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggtacctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctagc gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttgtggag 240

<210> 2520

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2520

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagAACgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2521

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2521

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagAACgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2522

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2522

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2523

<211> 245

<212> DNA

<213> Homo sapiens

<400> 2523

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttctg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180



aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtg  
245

<210> 2524  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2524  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2525  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2525  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaaact gcgcttcgac  
agcgacgtgc 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2526

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2526

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt ggccttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2527

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2527

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt ggccttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcgg  
266

<210> 2528  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 2528  
cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcca taaccaggag gagttcgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacctcctgg agcagaagcg gggccgggtg gacaactact gcagacacaa  
ctacgggggtt 240

gtggagagct tcacagtgca gcggcga  
267

<210> 2529  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2529  
tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggta 60

cctggacaga tacttcgata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gttccggggc gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaagcggg gccgggtgga caactactgc agacacaact  
acgggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2530  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2530  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccggg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2531  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2531  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2532  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2532  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggtacctgga cagatacttc cataaccagg aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2533  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2533  
atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60  
  
gtgctgagct cccactggc tttggctggg gacacccgac cacgtttctt  
ggagcaggtt 120  
  
aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga  
cagatacttc 180  
  
tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240  
  
gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagaag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2534  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2534  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aagagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2535  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2535  
atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttctt  
ggagcagggt 120

aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct  
ggaagacgag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2536  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2536  
ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2537  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2537  
cacgtttcct ggagcagggt aaacatgagt gtcatttcct caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2538

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2538

atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttctt  
ggagcaggtt 120

aaacatgagt gtcattttctt caacgggacg gagcgggtgc gggttcctgga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2539

<211> 282

<212> DNA

<213> Homo sapiens

<400> 2539

ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt  
cttcaacggg 60



acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgcac tgggggagta ccgggcgggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggtttgtga gagcttcaca gtgcagcggc ga  
282

<210> 2540

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2540

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc taccaccaag aggagtacgt gcggttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2541

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2541

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgacgag  
270

<210> 2542

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2542

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2543

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2543

ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagtc  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcgggccc aggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2544

<211> 282

<212> DNA

<213> Homo sapiens

<400> 2544

ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct ggacagatac ttctatcacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aggcgggccc aggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc ga  
282

<210> 2545

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2545

cacgtttcctt ggagcagggtt aaacatgagt gtcatttcctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaga cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2546

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2546

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tactttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2547

<211> 225

<212> DNA

<213> Homo sapiens

<400> 2547

tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat  
acttctatca 60

ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggchg  
tgacggagct 120

ggggcggcct agcggcgagt actggaacag ccagaaggac ctcttgagc  
agaagcgggc 180

cgcggtggac acctactgca gacacaacta cggggttggt gagag  
225

<210> 2548  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2548  
tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcgggc tagcgccgag tactggaaca  
gccagaagga 180

cctcctggag cagagggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2549  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2549  
atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttggctggg gacacccgac cacgtttctt  
ggagcaggtt 120

aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctagcgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300

cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2550

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2550

ttcttggagc aggttaaaca tgagtgtcat ttcttcaacg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctatca ccaagaggag tacgtgcgct tcgacagcga  
cgtgggggag 120

taccggggcg tgacggagct ggggcggcct agcgccgagt actggaacag  
ccagaaggac 180

atcctggaag acaggcgggc cctggtggac acctactgca gacacaacta  
cggggttgtg 240

gagagcttca cagtgcagcg g  
261

<210> 2551

<211> 234

<212> DNA

<213> Homo sapiens

<400> 2551

catgagtgtc atttcttcaa cgggacggag cgggtgcggt tcctggacag  
atacttctat 60

caccaagagg agtacgtgcg cttcgacagc gacgtggggg agtaccgggc  
ggtgacggag 120

ctggggcggc ctgatgccga gtactggaac agccagaagg acctcctgga  
gcagaagcgg 180

gccgcggtgg acacctactg cagacacaac tacgggggttg tggagagctt caca  
234

<210> 2552

<211> 225

<212> DNA

<213> Homo sapiens

<400> 2552

tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat  
acttctatca 60

ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggcgg  
tgacggagct 120

ggggcggcct gatgccgagt actggaacag ccagaaggac atcctggaag  
acgagcgggc 180

cgcggtggac acctactgca gacacaacta cggggtttgt gagag  
225

<210> 2553

<211> 250

<212> DNA

<213> Homo sapiens

<400> 2553

cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag  
250

<210> 2554  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 2554  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60  
  
accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacggagc 120  
  
tggggcgggc tgatgcccgag tactggaaca gccagaagga cctcctggag  
cagaagcggg 180  
  
ccgcggtgga cacctactgc agacacaact acggggttgg tg  
222

<210> 2555  
<211> 221  
<212> DNA  
<213> Homo sapiens

<400> 2555  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60  
  
accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacggagc 120  
  
tggggcgggc tagcgccgag tactggaaca gccagaagga cctcctggag  
cagaggcggg 180  
  
ccgaggtgga cacctactgc agacacaact acggggttgg t  
221

<210> 2556  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 2556  
atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tacttctatc 60



accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacggagc 120

tggggcgggc tgatgccgag tactggaaca gccagaagga catcctggaa  
gacaggcggg 180

ccctggtgga cacctactgc agacacaact acggggttgt ggagagcttc  
acagtgcg 238

<210> 2557

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2557

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tactttctatc accaagagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcgggc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2558

<211> 222

<212> DNA

<213> Homo sapiens

<400> 2558

atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga  
tactttctatc 60

accaagagga gtccgtgcgc ttcgacagcg acgtggggga gtaccgggcg  
gtgacggagc 120

tggggcgggc tgatgccgag tactggaaca gccagaagga cctcctggag  
cagaggcggg 180

ccgaggtgga cacctactgc agacacaact acggggttgg tg  
222

<210> 2559

<211> 249

<212> DNA

<213> Homo sapiens

<400> 2559

gagcaggtta aacatgagtg tcattttcttc aacgggacgg agcgggtgcg  
gttcctggac 60

agatacttct atcaccaaga ggagtccgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa  
ggacctcctg 180

gagcagaagc gggccgcggt ggacacctac tgcagacaca actacggggt  
tggtgagagc 240

ttcacagtg  
249

<210> 2560

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2560

gagcaggtta aacatgagtg tcattttcttc aacgggacgg agcgggtgcg  
gttcctggac 60

agatacttct atcaccaaga ggagtacgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa  
ggacctcctg 180

gagcagaagc ggggcccgggt ggacaactac tgcagacaca actacggggt  
tgtggagagc 240

ttcaca  
246

<210> 2561  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2561  
cacgtttcctt ggagcagggtt aaacatgagt gtcatttcctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag attcacagtg cagcggcgag  
270

<210> 2562  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2562  
cacgtttcctt ggagcagggtt aaacatgagt gtcatttcctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcggagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2563  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2563  
ttggagcagg ttaaacaatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttcctg 60  
  
gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagtac 120  
  
cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcggggcct ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

ag  
242

<210> 2564  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2564  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggccctgatac cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2565  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 2565  
cacgtttcctt ggagcagggtt aaacatgagt gtcatttcctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cggggccgagg tggacaccta ctgcagacac  
aactacgggg 240  
  
ctgtggagag cttcacagtg  
260

<210> 2566  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2566  
cacgtttcctt ggagcagggtt aaacatgagt gtcatttcctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cggggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2567  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2567  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgatg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2568  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2568  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggtggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2569  
<211> 270

<212> DNA

<213> Homo sapiens

<400> 2569

cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2570

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2570

ttggagcagg ttaaacaatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttcctg 60

gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagtac 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcaggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

<210> 2571

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2571

cacgttttctt ggagcagggtt aaacatgagt gtcattttctt caacggggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcacttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2572

<211> 243

<212> DNA

<213> Homo sapiens

<400> 2572

tttcttgag caggttaaac ctgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctggacaga tactttctatc accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaagcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tga

243

<210> 2573

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2573

cacgttttctt ggagcagggtt aaacatgagt gtcattttctt caacggggacg  
gagcgggtgc 60



ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2574

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2574

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2575

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2575

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2576

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2576

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2577

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2577

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggactaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2578

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2578

cacgtttcct ggagcagggt aaacatgagt gtcatttcct caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgg cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2579

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2579

cacgtttcct ggagcagggt aaacatgagt gtcatttcct caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2580

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2580

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2581

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2581

cacgtttctt ggagcagggtt aaacatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2582  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 2582  
cacgtttcct ggagcagggt aaacatgagt gtcatttcct caacgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tatcaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagc  
264

<210> 2583  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2583  
atggtgtgtc tgaagctccc tggaggctcc tgcattggcag ctctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccaac cacgtttcct  
gtggcagggt 120

aagtataagt gtcatttcct caacgggacg gagcgggtgc agttcctgga  
aagactcttc 180

tataaccagg aggagttcgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctagggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaggacagg 300

cggggccagg tggacaccgt gtgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2584

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2584

cacgtttcct gtggcagggt aaatataagt gtcatttctt caacgggacg  
gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2585

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2585

cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg  
gagcgggtgc 60

agttcctgga aagtctcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtagcgg ggcggtagcgg gagctagggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2586  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2586  
tttcctgtgg cagggttaagt ataagtgtca tttcttcaac gggacggagc  
gggtgcagtt 60

cctggaaaga ctctttctata accaggagga gttcgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tagggcggcc tgcgcgcgag tcctggaaca  
gccagaagga 180

catcctggag gacaggcggg gccagggtga caattactgc agacacaact  
acgggggttg 240

tgagagc  
247

<210> 2587  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 2587  
cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggagc  
gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtccttg  
aacagccgga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacag  
258

<210> 2588

<211> 250

<212> DNA

<213> Homo sapiens

<400> 2588

cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg  
gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc ggagtactgg  
aacagccaga 180

aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag  
250

<210> 2589

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2589

cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg  
gagcgggtgc 60

agttcctgga aagactcttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtccttg  
aacagccaga 180



aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2590

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2590

ggggacaccc gaccacgttt cttggagtac tctacgggtg agtgttatth  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggactt cctggaagac aggcggggccc tggaggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcacg gtgcagcggc gag  
283

<210> 2591

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2591

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatatttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2592

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2592

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcttgatgc cgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgggccctgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacggtg 360

cagcggcgag  
370

<210> 2593

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2593

cacgtttctt ggagtactct acgggtgagt gttattttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2594

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2594

cgtttcttgg agtactctac gggtgagtgt tatttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagtaccggg cggtgacaga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccctgggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacgggtg  
258

<210> 2595

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2595

ggggacacca gaccacgttt cttggagtac tctacgggtg agtgttatatt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggacat cctggaagac aggcgggccc tggcggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2596

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2596

ggggacacca gaccacgttt cttggagtag tctacgggtg agtggtatatt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggactt cctggaagac aggcgggccc tggcggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2597

<211> 228

<212> DNA

<213> Homo sapiens

<400> 2597

ttcaatggga cggagcgggt gcggttcctg gacagatact tctataacca  
agaggagtag 60

gtgcgcttcg acagcgacgt gggggagtag cgggcggtga cggagctggg  
gcggcctgat 120

gccgagtact ggaacagcca gaaggacttc ctggaagaca ggcgggacct  
ggtggacacc 180

tactgcagac acaactacgg ggttggtgag agcttcacag tgcagcgg  
228

<210> 2598  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2598  
cacgtttcctt ggagtactct acgggtgagt gttatttcctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgttgagag cttcacggtg cagcggcga  
269

<210> 2599  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2599  
cacgtttcctt ggagtactct acgggtgagt gttatttcctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacggtg cagcggcgag  
270

<210> 2600  
<211> 245  
<212> DNA  
<213> Homo sapiens

<400> 2600  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggt  
245

<210> 2601  
<211> 271  
<212> DNA  
<213> Homo sapiens

<400> 2601  
ccacgtttct tggagtactc tacgggtgag tgttatttct tcaatgggac  
ggagcgggtg 60

cggttcctgg acagatactt ctataaccaa gaggagtacg tgcgcttcga  
cagcgacgtg 120

ggggagtacc ggcggtgac ggagctgggg cggcctagcg ccgagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcgggccctg gtggacacct actgcagaca  
caactacggg 240

gttgtggaga gcttcacagt gcagcggcga g  
271

<210> 2602  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2602  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtagcg ggcggtgacg gagctggggc ggcctgttgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2603  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 2603  
ttggagtact ctacgggtga gtgttatttc ttcaatggga cggagcgggt  
gcggttcctg 60  
  
gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagtag 120  
  
cgggcggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcgggccct ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2604  
<211> 270  
<212> DNA

<213> Homo sapiens

<400> 2604

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2605

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2605

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2606

<211> 260

<212> DNA

<213> Homo sapiens



<400> 2606

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg  
260

<210> 2607

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2607

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2608

<211> 254

<212> DNA

<213> Homo sapiens

<400> 2608

tcttgagta ctctacgggt gagtgttatt tcttcaatgg gacggagcgg  
gtgcggttcc 60

tggacagata cttctataac caagaggagt acgtgcgctt cgacagcgac  
gtgggggagt 120

accgggcggt gacggagctg gggcggcctg atgccgagta ctggaacagc  
cagaaggacc 180

tcctggaaga caggcgggcc ctggtggaca cctactgcag acacaactac  
ggggttggtg 240

agagcttcac ggtg  
254

<210> 2609

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2609

cacgtttctt ggagtactct aggggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg  
260

<210> 2610

<211> 242

<212> DNA

<213> Homo sapiens

<400> 2610

tttcttgag tactctacgg gtgagtgtta tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcgggc tgatgcggag cactggaaca  
gccagaagga 180

catcctggaa gacagggcggg ccctggtgga cacctactgc agacacaact  
acgggggttg 240

tg  
242

<210> 2611  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2611  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggaggacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2612  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2612  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2613

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2613

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2614

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2614

tttcttgag tactctacgg gtgagtgtta tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtagcggagc tggggcggcc tatcgccgag tactggaaca  
gccagaagga 180

catcctggaa gacaggcggg ccctggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgc  
257

<210> 2615  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2615  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2616  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2616  
cacgtttctt ggagtactct atgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcga  
269

<210> 2617

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2617

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacggtg cagcggcgag  
270

<210> 2618

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2618

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtga 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2619  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2619  
cacgtttcct ggagtactct acgggtgagt gttatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2620  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2620  
ggggacaccc aaccacgttt cttgaagcag gataagtttg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggtatct gcacagaggc atctataacc aagaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggactt cctggagcgg aggcgggccc aggtggacac  
cgtgtgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagaggc gag  
283

<210> 2621

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2621

cacgtttctt gaagcaggat aagtttgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggtatctgca cagaggcac tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggagcggagg cgggccgagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagaggcgag  
270

<210> 2622

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2622

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggaggaggtt 120

aagtttgagt gtcatttctt caacgggacg gagcgggtgc ggttgctgga  
aagacgcgtc 180

cataaccaag aggagtacgc gcgctacgac agcgacgtgg gggagtaccg  
ggcggtgacg 240



gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcggagg 300

cgtgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2623  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2623  
cacgtttctt ggaggagggtt aagtttgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttgctgga aagacgcgtc cataaccaag aggagtacgc gcgctacgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2624  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2624  
atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagttccg  
ggcgggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2625

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2625

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccg cggtggaac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcacg gtgcagcggc gag  
283

<210> 2626

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2626

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2627

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2627

cgtttcttgg agtactctac gtctgagtgt catttcttca acgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacagtgca gcggcgag  
268

<210> 2628

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2628

ggggacacca gaccagttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacat cctggaagac gagcgggccg cggtaggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2629

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2629

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcattttctt caatgggacg gagcgggtgc gggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagttccg  
ggcgggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct  
ggaagacgag 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2630

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2630

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagttccg  
ggcgggtgacg 240

gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2631

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2631

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccc cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcacg gtgcagcggc gag  
283

<210> 2632

<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2632  
ccacgtttct tggagtactc tacgggtgag tgtcatttct tcaatgggac  
ggagcgggtg 60  
  
cggttcctgg acagatactt ctataaccaa gaggagtacg tgcgcttcga  
cagcgacgtg 120  
  
ggggagttcc gggcgggtgac ggagctgggg cggcctgatg aggagtactg  
gaacagccag 180  
  
aaggacttcc tggagacag gcgggccgcg gtggacacct actgcagaca  
caactacggg 240  
  
gttggtgaga gcttcacagt gcagcggcga  
270

<210> 2633  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 2633  
cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60  
  
ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120  
  
gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180  
  
gacttcctgg aagacaggcg ggccgcgggtg gacacctact gcagacacaa  
ctacggggct 240  
  
gtggagagct tcacagtgca gcggcgag  
268

<210> 2634  
<211> 266  
<212> DNA

<213> Homo sapiens

<400> 2634

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga cacctattgc agacacaact  
acggggctgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2635

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2635

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggcg ag  
262

<210> 2636

<211> 238

<212> DNA

<213> Homo sapiens

<400> 2636

gtctgagtgt catttcttca atgggacgga gcgggtgcgg ttcctggaca  
gatacttcta 60

taaccaagag gagtacgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgga 120

gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg  
aagacaggcg 180

ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct  
tcacagtg 238

<210> 2637

<211> 238

<212> DNA

<213> Homo sapiens

<400> 2637

gtctgagtgt catttcttca atgggacgga gcgggtgcgg ttcctggaca  
gatacttcta 60

taaccaagag gagtacgtgc gcttcgacag cgacgtgggg gagttccggg  
cggtgacgga 120

gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg  
aagacaggcg 180

ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct  
tcacggtg 238

<210> 2638

<211> 231

<212> DNA

<213> Homo sapiens

<400> 2638

catttcttca atgggacgga gcgggtgcgg ttcctggaca gatacttcca  
taaccaggag 60

gagaacgtgc gcttcgacag cgacgtgggg gagttccggg cggtgacgga  
gctggggcgg 120



cctgatgagg agtactggaa cagccagaag gacttcctgg aagacaggcg  
ggccgcggtg 180

gacacctact gcagacacaa ctacgggggtt ggtgagagct tcacagtgcg g  
231

<210> 2639

<211> 219

<212> DNA

<213> Homo sapiens

<400> 2639

gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata  
cttccataac 60

caggaggagt tcgtgcgctt cgacagcgac gtgggggagc tccgggcggt  
gacggagctg 120

gggcggcctg atgaggagta ctggaacagc cagaaggact tcctggaaga  
caggcgggcc 180

gcggtggaca cctactgcag acacaactac ggggttggt  
219

<210> 2640

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2640

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2641  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 2641  
gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata  
cttctataac 60  
  
caagaggagt tcgtgcgctt cgacagcgac gtgggggagt tccgggcggt  
gacggagctg 120  
  
gggcggcctg atgaggagta ctggaacagc cagaaggact tcctggaaga  
caggcgggcc 180  
  
gcggtggaca cctactgcag acacaactac ggggttggt  
219

<210> 2642  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2642  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2643  
<211> 282  
<212> DNA

<213> Homo sapiens

<400> 2643

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacct cctggagcgg aggcgggccg cggtaggacac  
ctattgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc ga  
282

<210> 2644

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2644

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aaggaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacat cctggaagac gagcgggccg cggtaggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2645

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2645

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagga  
cttgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccc cggtggacac  
ctactgcaga 240

cacaactacg gggtttgtga gagcttcaca gtgcagcggc gag  
283

<210> 2646

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2646

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagAACGT gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2647

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2647

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga  
tgaggagtag 180

tggaacagcc agaaggacct cctggagcgg aggcgggccg aggtggacac  
ctattgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2648

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2648

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2649

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2649

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2650

<211> 256

<212> DNA

<213> Homo sapiens

<400> 2650

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagc  
256

<210> 2651

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2651

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtag gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggctgtggag 240

a  
241

<210> 2652  
<211> 250  
<212> DNA  
<213> Homo sapiens

<400> 2652  
cacgtttctt ggagcagggt aaacatgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag  
250

<210> 2653  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2653  
ccacgtttct tggagtactc tacgtctgag tgtcatttct tcaatgggac  
ggagcgggtg 60

cggttcctgg acagatactt ctataaccaa gaggagtacg tgcgcttcga  
cagcgacgtg 120

ggggagttcc gggcggtgac ggagctgggg cggcctgatg aggagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcgggccctg gtggacacct actgcagaca  
caactacggg 240

gttggtg  
247

<210> 2654  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 2654  
ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctataa ccaagaggag gacgtgcgct tcgacagcga  
cgtgggggag 120

ttccgggcgg tgacggagct ggggcggcct gatgaggagt actggaacag  
ccagaaggac 180

ttcctggaag acaggcgggc cgcggtggac acctactgca gacacaacta  
cggggtttgt 240

gagagcttca c  
251

<210> 2655  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2655  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120



gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2656

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2656

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtag gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcggggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2657

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2657

tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gttccggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga caattactgc agacacaact  
acgggggttg 240

tgagag  
246

<210> 2658  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2658  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaacta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2659  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2659  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2660  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2660  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2661  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2661  
cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcga  
269

<210> 2662  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2662  
ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60  
  
acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120  
  
gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgaggagcac 180  
  
tggaacagcc agaaggacat cctggaagac aggcggggccg cgggtggacac  
ctactgcaga 240  
  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2663  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2663  
cacgtttcct ggagtactct acgtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cggggcgtgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2664  
<211> 259  
<212> DNA  
<213> Homo sapiens

<400> 2664  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60  
  
gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca ggcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240  
  
agcttcacag tgcagcggc  
259

<210> 2665  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2665  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcga  
269

<210> 2666  
<211> 259

<212> DNA

<213> Homo sapiens

<400> 2666

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcgggtga cggagctggg gcggcctgat gaggactact ggaacagcca  
gaaggacttc 180

ctggaagaca ggcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggc  
259

<210> 2667

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2667

cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa  
cagccagaag 180

gacctcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa  
ctacgggggtt 240

gtggagagct tcacagtgca gcggcga  
267

<210> 2668

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2668

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2669

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2669

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggggtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2670

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2670

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgagg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2671

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2671

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgg  
246

<210> 2672

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2672

tttcttgagg tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60



cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca  
gccagaagga 180

cttcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2673

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2673

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggccctgatga ggagtactgg  
aacagccaga 180

aggacctcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2674

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2674

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgagg gagctggggc ggcctgatga ggagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2675

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2675

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttattttctt caatgggacg gagcgggtgc gggtactgga  
gagacacttc 180

cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagttccg  
ggcgggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ttgcagacac aactacgggg ctgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2676

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2676

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttatttctt caatgggacg gagcgggtgc ggttactgga  
gagacacttc 180

cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagttccg  
ggcggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct  
ggaagacagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ctgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2677

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2677

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2678

<211> 243  
<212> DNA  
<213> Homo sapiens

<400> 2678  
ttcttggagt actctacggg tgagtgttat ttcttcaatg ggacggagcg  
ggtgcggtta 60  
  
ctggagagac acttccataa ccaggaggag ctcttgcgct tcgacagcga  
cgtgggggag 120  
  
ttccggggcg tgacggagct ggggcggcct gtcgccgagt cctggaacag  
ccagaaggac 180  
  
ttcctggaag acaggcgcgc cgcggtggac acctactgca gacacaacta  
cggggctgtg 240

gag  
243

<210> 2679  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2679  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60  
  
ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180  
  
aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcgg  
266

<210> 2680  
<211> 235  
<212> DNA

<213> Homo sapiens

<400> 2680

gagtactcta cgggtgagtg ttattttcttc aatgggacgg agcgggtgcg  
gttactggag 60

agacacttcc ataaccagga ggagctcctg cgcttcgaca gcgacgtggg  
ggagttccgg 120

gcggtgacgg agctggggcg gcctgatgag gagtactgga acagccagaa  
ggacatcctg 180

gaagacaggc gcgccgcggt ggacacctat tgcagacaca actacggggc  
tgtgg 235

<210> 2681

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2681

cacgtttctt ggagtactct acgggtgagt gttattttctt caatgggacg  
gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggccctgtcg cgagtcctgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2682

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2682

ggggacacca gaccacgttt cttggagtac tctacgggtg agtgttattt  
cttcaatggg 60

acggagcggg tgcggttact ggagagacac ttccataacc aggaggagct  
cctgcgcttc 120

gacagcgcgc tgggggagtt ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggacat cctggaagac aggcgcgcgc cgttggaacac  
ctattgcaga 240

cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2683

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2683

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggccctgtcg cgagtcctgg  
aacagccaga 180

aggacatcct gggagacagg cgcgccgcgc tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2684

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2684

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagctcct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2685

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2685

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2686

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2686

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggctgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2687

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2687

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2688

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2688

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa  
cgtgcgcttc 120



gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcgggccg cggaggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2689

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2689

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagAACGT gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2690

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2690

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggacat cctggaagac aagcgggccg cggaggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcacg gtgcagcggc gag  
283

<210> 2691  
<211> 262  
<212> DNA  
<213> Homo sapiens

<400> 2691  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtag gtgcgcttcg acagcgacgt  
gggggagtag 120

cgggcgggtga cggagctggg gcggcctagc gccgagtact ggaacagcca  
gaaggacatc 180

ctggaagaca agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

agcttcacag tgcagcggcg ag  
262

<210> 2692  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2692  
ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcgggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag  
cgccgagtag 180

tggaacagcc agaaggacat cctggaagac gagcggggccg cggaggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2693

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2693

cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcca taaccaggag gagaacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacagtgca gcggcgag  
268

<210> 2694

<211> 228

<212> DNA

<213> Homo sapiens

<400> 2694

tgtcatttct tcaatgggac ggagcgggtg cggttcctgg acagatactt  
ccataaccag 60

gaggagaacg tgcgcttcga cagcgacgtg ggggagttcc gggcggtgac  
ggagctgggg 120

cggcctgatg ccgagtactg gaacagccag aaggacatcc tggaagacag  
gcggggccgcg 180

gtggacacct actgcagaca caactacggg gttgtggaga gcttcaca  
228

<210> 2695  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2695  
cacgtttcctt ggagtactct acgtctgagt gtcatttcctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2696  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 2696  
cacgtttcctt ggagtactct acgtctgagt gtcatttcctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcg  
268

<210> 2697  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 2697  
ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60  
  
ctggacagat acttccataa ccaggaggag ttcgtgcgct tcgacagcga  
cgtgggggag 120  
  
taccgggcg tgacggagct ggggcggcct gatgccgagt actggaacag  
ccagaaggac 180  
  
atcctggaag acgagcgggc cgcggtggac acctactgca gacacaacta  
cggggttggtg 240  
  
gagagcttca cagtg  
255

<210> 2698  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 2698  
tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60  
  
cctggacaga tacttccata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120  
  
gttccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180  
  
catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact  
acgggggttggt 240  
  
ggagagcttc acagtg  
256

<210> 2699  
<211> 270

<212> DNA

<213> Homo sapiens

<400> 2699

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2700

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2700

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2701

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2701

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2702

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2702

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg ca  
262

<210> 2703

<211> 227

<212> DNA

<213> Homo sapiens

<400> 2703

tacgtctgag tgtcatttct tcaatgggac ggagcgggtg cggttcctgg  
acagatactt 60

ctataaccaa gaggagtacg tgcgcttcga cagcgacgtg ggggagttcc  
ggcggtgac 120

ggagctgggg cggcctgatg ccgagtactg gaacagccag aaggacttcc  
tggaagacag 180

gcgggccgcg gtggacacct actgcagaca caactacggg gttggtg  
227

<210> 2704

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2704

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcggtg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2705

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2705

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggagaga tacttccata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120



gttcggggcg gtgacggagc tggggcgggc tgatgccgag tactggaaca  
gccagaagga 180

catcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact  
acgggggttgt 240

ggagagcttc acagtgcagc ggcgag  
266

<210> 2706

<211> 247

<212> DNA

<213> Homo sapiens

<400> 2706

ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc  
ggttcctgga 60

cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg  
gggagttccg 120

ggcggtgacg gagctggggc ggccctgatgc cgagtactgg aacagccaga  
aggacatcct 180

ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg  
ttgatgagag 240

cttcaca  
247

<210> 2707

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2707

ggggacacca gaccacgttt cttggagtac tctacgggtg agtgttatatt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcgggccg cggaggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2708

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2708

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagAACGT gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cggggcctgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2709

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2709

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagtt  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggaagac gagcggggccg cggaggacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2710

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2710

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacgag cggggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2711

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2711

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta  
cgtgcgcttc 120

gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag  
cgccgagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccg cggcggacac  
ctactgcaga 240

cacaactacg gggtttgtga gagcttcaca gtgcagcggc gag  
283

<210> 2712

<211> 273

<212> DNA

<213> Homo sapiens

<400> 2712

gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg  
acggagcggg 60

tgccggttcct ggacagatac ttctataacc aagaggagta cgtgcgcttc  
gacagcgacg 120

tgggggagtt ccgggcgggtg acggagctgg ggccggcctga tgccgagtac  
tggaacagcc 180

agaaggacat cctggaagac gagcgggccg cggcggacac ctactgcaga  
cacaactacg 240

gggttgttga gagcttcaca gtgcagcggc gag  
273

<210> 2713

<211> 265

<212> DNA

<213> Homo sapiens

<400> 2713

cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggcggacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacatcctgg aagacgagcg ggccgcgggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacggtgca gcggc  
265

<210> 2714  
<211> 265  
<212> DNA  
<213> Homo sapiens

<400> 2714  
cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag  
cgacgtgggg 120

gagttccggg cggtgacgga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacttcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa  
ctacgggggtt 240

gtggagagct tcacagtgca gcggc  
265

<210> 2715  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 2715  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggaagacagg cggggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgaga  
249

<210> 2716  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2716  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180  
  
aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2717  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2717  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2718  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 2718  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60  
  
gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120  
  
cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacatc 180  
  
ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactaccg  
ggttgtggag 240  
  
agcttcac  
248

<210> 2719  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2719  
cacgtttcct ggagtactct acgtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggaagacgag cggggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2720  
<211> 253  
<212> DNA  
<213> Homo sapiens

<400> 2720  
tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60  
  
cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120  
  
gttccgggcg gtgacggagc tggggcggcc tagcgccgag tactggaaca  
gccagaagga 180  
  
catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240  
  
tgagagcttc aca  
253

<210> 2721  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2721  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtactgg  
aacagccaga 180  
  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcga  
269

<210> 2722  
<211> 270



<212> DNA

<213> Homo sapiens

<400> 2722

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2723

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2723

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacaag cgggccgcgg tggacaacta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2724

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2724

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2725

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2725

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacct gcgcttcgac  
agcgacgtgg 120

gggagttcct ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2726

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2726

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2727

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2727

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacaag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcga  
269

<210> 2728

<211> 245

<212> DNA

<213> Homo sapiens

<400> 2728

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggt  
245

<210> 2729

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2729

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtcctgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2730

<211> 260

<212> DNA

<213> Homo sapiens

<400> 2730

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagtac 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacatc 180

ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggcg  
260

<210> 2731

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2731

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2732

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2732

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2733

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2733

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagAACGT gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2734

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2734

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2735

<211> 242

<212> DNA

<213> Homo sapiens

<400> 2735

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacatc 180

ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

ag  
242

<210> 2736

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2736

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2737

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2737

cacgtttcct ggagtactct acgtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcgag  
270

<210> 2738

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2738

cacgtttcct ggagtactct acgtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180



aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2739

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2739

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt ggccttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2740

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2740

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagAACgt ggccttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2741  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2741  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcgttgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2742  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 2742  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcgttgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg  
260

<210> 2743

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2743

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2744

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2744

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtccctgg  
aacagccaga 180

aggacttcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2745  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2745  
tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60  
  
cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120  
  
gtaccggggcg gtgacggagc tggggcgggc tagcgccgag tactggaaca  
gccagaagga 180  
  
cttcctggaa gacaggcggg ccctggtgga cacctactgc agacacaact  
acggggttgg 240  
  
tgagagcttc acggtgcagc ggcgag  
266

<210> 2746  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2746  
atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60  
  
gtgctgagct cccactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120  
  
acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180  
  
cataaccagg aggagtctgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240  
  
gagctggggc ggcctgctgc ggagcactgg aacagccaga aggacctcct  
ggagcggagg 300

cgggccgagg tggacaccta ttgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2747  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2747  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcttgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagacac  
aactacgggg 240

ttgtgg  
246

<210> 2748  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2748  
atggtgtgtc tgaggtccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
gagatacttc 180

cataaccagg aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagagg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2749  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2749  
atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgtctgagt gtcattttctt caatgggacg gagcgggtgc ggttcctgga  
gagatacttc 180

cataaccagg aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggaagacagg 300

cgggcccttg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2750  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2750

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacaccagac cacgtttctt  
ggagtactct 120

acgggtgagt gttattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

cataaccagg aggagtctcg tgcgtctcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcttgctgc ggagcactgg aacagccaga aggacctcct  
ggagcggagg 300

cgggccgagg tggacaccta ttgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2751

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2751

cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagtctcg tgcgtctcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcttgatgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2752

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2752

cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2753

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2753

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2754

<211> 269

<212> DNA

<213> Homo sapiens



<400> 2754

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttccttga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcga  
269

<210> 2755

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2755

cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttccttga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttggtgagag cttcacggtg cagcggcga  
270

<210> 2756

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2756

cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggccctgatgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcga  
269

<210> 2757

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2757

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tacttccata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcgggc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2758

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2758

ttcttgagc aggttaaaca tgagtgtcat ttcttcaatg ggacggagcg  
gggtgcggtt 60

ctggacagat acttccataa ccaggaggag ttcgtgcgct tcgacagcga  
cgtgggggag 120

taccgggcggtgacggagct ggggcggcct gctgcggagc actggaacag  
ccagaaggac 180

ctcctggagc ggaggcgggc cgagggtggac acctattgca gacacaacta  
cggggttgtg 240

gagagcttca cagtgcagcg g  
261

<210> 2759

<211> 235

<212> DNA

<213> Homo sapiens

<400> 2759

gagtactcta cgggtgagtg ttatttcttc aatgggacgg agcgggtgcg  
gttcctggac 60

agataacttc ataaccagga ggagttcgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgag gagtactgga acagccagaa  
ggacctcctg 180

gagcggaggc gggccgaggt ggacacctat tgcagacaca actacggggt  
tgtgg 235

<210> 2760

<211> 224

<212> DNA

<213> Homo sapiens

<400> 2760

gtctgagtggt catttcttca atgggacgga gcgggtgcgg ttcctggaga  
gataattcca 60

taaccaggag gagaacgtgc gcttcgacag cgacgtgggg gagtaccggg  
cggtgacgga 120

gctggggcgg cctgatgccg agtactggaa cagccagaag gacctcctgg  
aagacaggcg 180

ggccctggtg gacacctact gcagacacaa ctacgggggt gtgg  
224

<210> 2761

<211> 235

<212> DNA

<213> Homo sapiens

<400> 2761

gagtactcta cgtctgagtg tcattttcttc aatgggacgg agcgggtgcg  
gttcctggag 60

agataacttcc ataaccagga ggagaacgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctagcgcc gagtactgga acagccagaa  
ggacctcctg 180

gagcagaggc gggccgcggt ggacacctac tgcagacaca actacgggggt  
tggtg 235

<210> 2762

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2762

ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttcataa ccaggaggag ttcgtgcgct tcgacagcga  
cgtgggggag 120

taccgggfcg tgacggagct ggggcggcct gatgccgagt actggaacag  
ccagaaggac 180

ctcctggagc ggaggcgggc cgaggtggac acctattgca gacacaacta  
cgggggttgg 240

gagagcttca cagtg  
255

<210> 2763  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 2763  
ctctacgggt gagtggttatt tcttcaatgg gacggagcgg gtgcggttcc  
tggacagata 60  
  
cttccataac caggaggagt tcgtgcgctt cgacagcgcac gtggggggagt  
accgggcggt 120  
  
gacggagctg gggcggcctg atgccgagta ctggaacagc cagaaggact  
tcctggaaga 180  
  
caggcggggc ctggtggaca cctactgcag acacaactac ggggttggtg  
agagcttcac 240  
  
agtgcag  
247

<210> 2764  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 2764  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60  
  
gacagatact tccataacca ggaggagttc gtgcgcttcg acagcgacgt  
gggggagtac 120  
  
cgggcgggtga cggagctggg gcggcctgct gcggagcact ggaacagcca  
gaaggacatc 180  
  
ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

<210> 2765  
<211> 266  
<212> DNA

<213> Homo sapiens

<400> 2765

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2766

<211> 258

<212> DNA

<213> Homo sapiens

<400> 2766

gagtactcta cgtctgagtg tcattttcttc aatgggacgg agcgggtgcg  
gttcctggag 60

agatacttcc ataaccagga ggagaacgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgatgct gagtactgga acagccagaa  
ggacctcctg 180

gagcggaggc gggccgaggt ggacacctat tgcagacaca actacggggt  
tgtggagagc 240

ttcacagtgc agcggcga  
258

<210> 2767

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2767

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcgggttcct ggagagatac ttccataacc aggaggagaa  
cgtgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtag 180

tggaacagcc agaaggacct cctggagcag aagcgggccg cgttgagcac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca  
270

<210> 2768

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2768

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gagagatact tccataacca ggaggagttc gtgcgcttcg acagcgacgt  
gggggagtag 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

a

241

<210> 2769

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2769

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

a  
241

<210> 2770  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2770  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcttgctgc ggagcactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2771  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2771  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60



ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2772

<211> 265

<212> DNA

<213> Homo sapiens

<400> 2772

ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggagagat acttccataa ccaggaggag aacgtgcgct tcgacagcga  
cgtgggggag 120

taccgggcgg tgacggagct ggggcggcct gatgccgagt actggaacag  
ccagaaggac 180

atcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttggt 240

gagagcttca cagtgcagcg gcgag  
265

<210> 2773

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2773

tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaagagga gtacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgctgcggag cactggaaca  
gccagaagga 180

cttcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc ggcgag  
266

<210> 2774

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2774

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

agttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcttgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2775

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2775

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagatacttc cataaccagg aggagaaact gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2776

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2776

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ctgtggagag cttcaca  
257

<210> 2777

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2777

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2778

<211> 253

<212> DNA

<213> Homo sapiens

<400> 2778

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttcata accaggagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gttccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca  
gccagaagga 180

cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc aca  
253

<210> 2779

<211> 253

<212> DNA

<213> Homo sapiens

<400> 2779

tttcttgag tactctacgg gtgagtgtta tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttcata accaggagga gttcgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgctgcggag cactggaaca  
gccagaagga 180

cctcctggag cggagggcggg ccgcggtgga cacctattgc agacacaact  
acgggggttg 240

ggagagcttc aca  
253

<210> 2780  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2780  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagtctgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2781  
<211> 259  
<212> DNA  
<213> Homo sapiens

<400> 2781  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga ggcgggccga ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggc  
259

<210> 2782

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2782

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt ggccttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2783

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2783

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt ggccttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2784  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2784  
cacgtttcctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgc 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2785  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2785  
cacgtttcctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2786  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2786  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaatta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2787  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2787  
cacgtttctt ggagtaccct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270



<210> 2788  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2788  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggaagacagg cgggccctgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2789  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 2789  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcga  
269

<210> 2790  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2790  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2791  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2791  
cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc tgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcggagg cgggccgagg tggacgccta ttgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2792  
<211> 270

<212> DNA

<213> Homo sapiens

<400> 2792

cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2793

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2793

cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgatgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcggagg cgggccgagg tggacaccta ttgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2794

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2794

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct cccactggc tttgtctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagttccg  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacatcct  
ggagcaggcg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2795

<211> 266

<212> DNA

<213> Homo sapiens

<400> 2795

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacggag 240

ttgtggagag cttcacagtg cagcgg  
266

<210> 2796  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2796  
cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180  
  
aggacatcct ggagcaggcg cgggccgcgg tggacaccta ttgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcgg  
266

<210> 2797  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2797  
cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120  
  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2798  
<211> 283

<212> DNA

<213> Homo sapiens

<400> 2798

ggggacaccc gaccacgttt cctgtggcag cctaagaggg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagatac ttctataacc aggaggagtc  
cgtgcgcttc 120

gacagcgcacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggacat cctggagcag gcgcggggccg cgggtggacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2799

<211> 220

<212> DNA

<213> Homo sapiens

<400> 2799

gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata  
cttctataac 60

caggaggagt ccgtgcgctt cgacagcgac gtgggggagt tccgggcggt  
gacggagctg 120

ggcgggcctg atgccgagta ctggaacagc cagaaggaca tcctggagca  
ggcgcggggc 180

gcggtggaca cctactgcag acacaactac ggggttggtg  
220

<210> 2800

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2800

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataatcagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2801

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2801

ggggacaccc gaccacgttt cctgtggcag cctaagaggg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggacagacac ttctataacc aggaggagtc  
cgctgcgcttc 120

gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggacat cctggagcag gcgcggggccg cggtggaacac  
ctactgcaga 240

cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2802

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2802

ttcctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctataa ccaggaggag tccgtgcgct tcgacagcga  
cgtgggggag 120

ttccgggcggtgacggagct ggggcggcct gacgctgagt actggaacag  
ccagaaggac 180

ttcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttgtg 240

gagagcttca cagtg  
255

<210> 2803

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2803

ttcctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg  
ggtgcggttc 60

ctggacagat acttctataa ccaggaggag tccgtgcgct tcgacagcga  
cgtgggggag 120

ttccgggcggtgacggagct ggggcggcct gacgctgagt actggaacag  
ccagaaggac 180

ctcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta  
cggggttgtg 240

gagagcttca cagtgcagcg g  
261

<210> 2804

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2804

ctgtggcagc ctaagaggga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60



gacagatact tctataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagttc 120

cgggcggcga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacatc 180

ctggagcagg cgcgggccgc ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240

agcttcacag tgcagcggcg ag  
262

<210> 2805

<211> 247

<212> DNA

<213> Homo sapiens

<400> 2805

tttcctgtgg cagcctaaga gggagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaggagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggcg gtgacggagc tggggcggcc tgacgctgag tactggaaca  
gccagaagga 180

catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact  
acggggttgt 240

ggagagc  
247

<210> 2806

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2806

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

agaacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2807

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2807

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttcca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2808

<211> 248

<212> DNA

<213> Homo sapiens

<400> 2808

gtttcctgtg gcagcctaag agggagtgtc atttcttcaa tgggacggag  
cgggtgcggt 60

tcctggacag atacttctat aaccaggagg agtccgtgcg cttcgacagc  
gacgtggggg 120

agttccgggc ggtgacggag ctggggcggc ctgacgctga gtactggaac  
agccagaagg 180

acatcctgga agacgagcgg gccgcggtgg acacctactg cagacacaac  
tacggggttg 240

tggagagc  
248

<210> 2809  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2809  
cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2810  
<211> 271  
<212> DNA  
<213> Homo sapiens

<400> 2810  
gcacgtttcc tgtggcagcc taagagggag tgtcatttct tcaatgggac  
ggagcgggtg 60

cgttcctgga acagatactt ctataaccag gaggagtccg tgcgcttcga  
cagcgacgtg 120

ggggagtccc ggcggtgac ggagctgggg cggcctagcg ccgagtactg  
gaacagccag 180

aaggacatcc tggagcaggc gcgggccgcg gtggacacct actgcagaca  
caactacggg 240

gttgtggaga gcttcacagt gcagcggcga g  
271

<210> 2811

<211> 263

<212> DNA

<213> Homo sapiens

<400> 2811

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccagg 180

acatcctgga gcagggcgcg gccgcggtgg acacctactg cagacacaac  
tacgggggtg 240

tggagagctt cacagtgcag cgg  
263

<210> 2812

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2812

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2813

<211> 255

<212> DNA

<213> Homo sapiens

<400> 2813

cgtttcctgt ggcagcctaa gagggagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaca gatacttcta taaccaggag gagtccgtgc gcttcgacag  
cgacgtgggg 120

gagtaccggg cggtgacgga gctggggcgg cctgacgctg agtactggaa  
cagccagaag 180

gacttcctgg aagacaggcg ggccgcggtg gacacctact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcaca  
255

<210> 2814

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2814

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2815

<211> 242

<212> DNA

<213> Homo sapiens

<400> 2815

tttcctgtgg cagcctaaga gggagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggacaga tactttctata accaggagga gtccgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tggggcggcc tgacgctgag tactggaaca  
gccagaagga 180

cctcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tg  
242

<210> 2816

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2816

atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttcct  
gtggcagcct 120

aagagggagt gtcattttctt caatgggacg gagcgggtgc ggttcctgga  
cagatacttc 180

tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

gccgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2817

<211> 235

<212> DNA

<213> Homo sapiens

<400> 2817

tggcagccta agagggagtg tcattttcttc aatgggacgg agcgggtgcg  
gttcctggac 60

agatacttct ataaccagga ggagtccgtg cgcttcgaca gcgacgtggg  
ggagtaccgg 120

gcggtgacgg agctggggcg gcctgacgct gagtactgga acagccagaa  
ggacttcctg 180

gaagacaggc gggccctggt ggacacctac tgcagacaca actacggggt  
tggtg 235

<210> 2818

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2818

ctgtggcagc ctaagaggga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gacagatact tctataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagtag 120

cgggcgggtga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacatc 180

ctggaagaca ggcgcgccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240

<210> 2819

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2819

cacgtttcct gtggcagcct aagagggagt gtcattttctt caatgggacg  
gagcgggtgc 60

ggttcccgga cagatacttc tataaccagg aggagtccgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg ca  
262

<210> 2820

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2820

cacgtttcct gtggcagcct aagagggagt gtcattttctt caatgggacg  
gagcgggtgc 60



ggttcctgga cagatacttc tataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2821

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2821

ggggacaccc gaccacgttt cttggagctg cgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2822

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2822

atggtgtgtc tgaagctccc tggaggctcc agcttggcag cgttgacagt  
gacactgatg 60

gtgctgagct cccgactggc ttctgctggg gacacccgac cacgtttctt  
ggagctgcgt 120

aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggtacctgga  
cagatacttc 180

cataaccagg aggagttcct gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacctcct  
ggagcagaag 300

cggggccggg tggacaatta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2823

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2823

ggggacaccc gaccacgttt cttggagctg cgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt  
tgccgagtcc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagc  
264

<210> 2824

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2824

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacggag 240

ttggtg  
246

<210> 2825

<211> 264

<212> DNA

<213> Homo sapiens

<400> 2825

ggggacaccc gaccacgttt cttggagctg tgtaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt  
cctgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtcc 180

tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagc  
264

<210> 2826

<211> 251

<212> DNA

<213> Homo sapiens

<400> 2826

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga gagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag c  
251

<210> 2827

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2827

cacgtttctc ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2828

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2828

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgaa cagatacttc cataaccagg aggagttcct gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcg  
268

<210> 2829

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2829

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2830

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2830

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2831  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2831  
cacgtttcct ggagctgcgt aagtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2832  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 2832  
cacgtttcct ggagctgcgt aagtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtccttg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcgg  
266

<210> 2833

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2833

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagttcct gagcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtccttg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2834

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2834

atggtgtgtc tgaagctccc tggaggctcc agcttggcag cgttgacagt  
gacactgatg 60

gtgctgagct cccgactggc tttcgctggg gacacccgac cacgtttctt  
ggagctgctt 120

aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga  
gagacacttc 180

cataaccagg aggagtacgc gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgagg 240

gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct  
ggagcagaag 300

cgggggccagg tggacaatta ctgcagacac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2835

<211> 283

<212> DNA

<213> Homo sapiens

<400> 2835

ggggacaccc gaccacgttt cttggagctg ctttaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcgggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgacg tgggggagta ccgggcgggtg agggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2836

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2836

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60



ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaacta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2837

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2837

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcaggcac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2838

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2838

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc ggagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2839

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2839

ttggagctgc ttaagtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gagagacact tccataacca ggaggagtcc gtgcgcttcg acagcgacgt  
gggggagtac 120

cgggcggtga gggagctggg gcggcctgat gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg  
ggttggtgag 240

a

241

<210> 2840

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2840

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2841

<211> 261

<212> DNA

<213> Homo sapiens

<400> 2841

cgtttcttgg agctgcttaa gtctgagtgt catttcttca atgggacgga  
gcgggtgcgg 60

ttcctggaga gatacttcca taaccaggag gagtacgcgc gcttcgacag  
cgacgtgggg 120

gagtaccggg cggtgaggga gctggggcgg cctgatgccg agtactggaa  
cagccagaag 180

gacctcctgg agcagaagcg gggccagggtg gacaattact gcagacacaa  
ctacgggggtt 240

ggtgagagct tcacagtgca g  
261

<210> 2842

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2842

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagaacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2843  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2843  
ttggagctgc ttaagtctga gtgtcatttc ttcaatggga cggagcgggt  
gcggttcctg 60

gagagacact tccataacca ggaggagtac gcgcgcttcg acagcgacgt  
gggggagtac 120

cgggcgggtga gggagctggg gcggcctgtc gccgagtact ggaacagcca  
gaaggacctc 180

ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg  
ggttggtgag 240

ag  
242

<210> 2844  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 2844  
cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctagcgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2845  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 2845  
cacgtttcct ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2846  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2846  
ggggacaccc gaccacgttt cttggagctg cttaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2847  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2847  
ggggacaccc gaccacgttt cttggagctg cttaagtctg agtgtcattt  
cttcaatggg 60

acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta  
cgcgcgcttc 120

gacagcgcgc tgggggagta ccgggcggtg agggagctgg ggcggcctga  
tgccgagtac 180

tggaacagcc agaaggacat cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2848  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2848  
cacgtttcct gcagctgctt aagtctgagt gtcatttcct caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2849  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2849  
cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggctcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2850  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2850  
cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttgctgagag cttcacagtg cagcggcgag  
270

<210> 2851  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2851  
cacgtttcctt ggagctgctt aagtctgagt gtcatttcctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccagg tggacaccta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2852  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2852  
cacgtttcctt ggagctgctt aagtctgagt gtcatttcctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggcctgctgc ggagcactgg  
aacagccaga 180  
  
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270



<210> 2853  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2853  
cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60  
  
ggttcctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac  
agcgacgtgg 120  
  
gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg  
aacagccaga 180  
  
aggacttcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240  
  
ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2854  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2854  
ggggacaccc gaccacgttt cttggagctg cttaagtctg agtgtcattt  
cttcaatggg 60  
  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagtt  
cgtgcgcttc 120  
  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt  
cgccgagtcc 180  
  
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa  
ttactgcaga 240  
  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2855  
<211> 270

<212> DNA

<213> Homo sapiens

<400> 2855

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagatacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacggcg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2856

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2856

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg  
gagcgggtgc 60

ggttcctgga gagacacttc cataaccagg aggagttcgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcctgg  
aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac  
aactacgggg 240

ttgtgg  
246

<210> 2857

<211> 253

<212> DNA

<213> Homo sapiens

<400> 2857

tttcttgag ctgcttaagt ctgagtgtca tttcttcaat gggacggagc  
gggtgcggtt 60

cctggagaga tacttccata accaggagga gttcgtgcgc ttcgacagcg  
acgtggggga 120

gtaccgggcg gtgacggagc tggggcggcc tgtcgccgag tcctggaaca  
gccagaagga 180

cctcctggag cagaagcggg gccgggtgga caattactgc agacacaact  
acggggttgg 240

tgagagcttc aca  
253

<210> 2858

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2858

atggtgtgtc tgaagctccc tggaggctcc tgtatggcag cgctgacagt  
gacattgacg 60

gtgctgagct cccactggc tttggctggg gacaccaac cacgtttctt  
ggagcaggct 120

aagtgtgagt gtcatttcct caatgggacg gagcgagtgt ggaacctgat  
cagatacatc 180

tataaccaag aggagtacgc gcgctacaac agtgacctgg gggagtacca  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggagcggagg 300

cgggccgagg tggacaccta ctgcagatac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2859  
<211> 220  
<212> DNA  
<213> Homo sapiens

<400> 2859  
gagcgagtgt ggaacctgat cagatacatc tataaccaag aggagtacgc  
gcgctacaac 60  
  
agtgacctgg gggagtacca ggcggtgacg gagctggggc ggcctgacgc  
tgagtactgg 120  
  
aacagccaga aggacctcct ggagcggagg cgggccgagg tgggcaccta  
ctgcagatac 180  
  
aactacgggg ttgtggagag cttcacagtg cagcggcgag  
220

<210> 2860  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2860  
ggggacaccc aaccacgttt cttggagcag gctaagtgtg agtgtcattt  
cctcaatggg 60  
  
acggagcgag tgtggaacct gatcagatac atctataacc aagaggagta  
cgcgcgctac 120  
  
aacagtgacc tggggggagta ccaggcggtg acggagctgg ggcggcctga  
cgctgagtac 180  
  
tggaacagcc agaaggacct cctggagcgg aggcgggccg aggtggacac  
ctactgcaga 240  
  
tacaactacg gggttgtgga gagcttcaca gtgcagcggc gag  
283

<210> 2861  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 2861

atggtgtgtc tgaagctccc tggaggctcc tgtatggcag cgctgacagt  
gacattgacg 60

gtgctgagct ccccaactggc tttggctggg gacaccaac cacgtttctt  
ggagcaggct 120

aagtgtgagt gtcatttcct caatgggacg gagcgagtgt ggaacctgat  
cagatacatc 180

tataaccaag aggagtacgc gcgctacaac agtgacctgg gggagtacca  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct  
ggagcggagg 300

cgggccgagg tggacaccta ttgcagatac aactacgggg ttgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2862

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2862

cacgtttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg  
gagcgagtgt 60

ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac  
agtgatctgg 120

gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagatac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2863

<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 2863  
cacgtttcct ggagcaggct aagtgtgagt gtcatttcct caatgggacg  
gagcgagtgt 60  
  
ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac  
agtgacctgg 120  
  
gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180  
  
aggacctcct ggagcggagg cgggccgagg tggacaacta ctgcagatac  
aactacgggg 240  
  
ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2864  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 2864  
ttggagcagg ctaagtgtga gtgtcatttc ctcaatggga cggagcgagt  
gtggaacctg 60  
  
atcagataca tctataacca agaggagtac gcgcgctaca acagtgacct  
gggggagtac 120  
  
caggcgggtga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacctc 180  
  
ctggagcgga ggcggggccga ggtggacacc tactgcagac acaactacgg  
ggttgtggag 240  
  
ag  
242

<210> 2865  
<211> 270  
<212> DNA

<213> Homo sapiens

<400> 2865

cacgtttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg  
gagcgagtgt 60

ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac  
agtgacctgg 120

gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagatac  
aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag  
270

<210> 2866

<211> 300

<212> DNA

<213> Homo sapiens

<400> 2866

ggtgctgagc tccccactgg ctttggtctg ggacacccaa ccacgtttct  
tgagcaggc 60

taagtgtgag tgtcatttcc tcaatgggac ggagcctgat cagatacatc  
tataaccaag 120

aggagtacgc gcgctacaac agtgacctgg gggagtacca ggcggtgacg  
gagctggggc 180

ggcctgacgc tgagtactgg aacagccaga aggacctcct ggagcggagg  
cgggccgagg 240

tggacaccta ctgcagatac aactacgggg ttgtggagag cttcacagtg  
cagcggcgag 300

<210> 2867

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2867

atggtgtgtc tgaagctccc tggaggttcc tacatggcaa agctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac cacgtttctt  
gcagcaggat 120

aagtatgagt gtcattttctt caacgggacg gagcgggtgc ggttcctgca  
cagagacatc 180

tataaccaag aggaggactt gcgcttcgac agcgacgtgg gggagtaccg  
ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttcct  
ggaagacagg 300

cgcgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2868

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2868

cacgtttctt gcagcaggat aagtatgagt gtcattttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcaca  
257

<210> 2869



<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 2869  
ggggacaccc gaccacgttt cttgcagcag gataagtatg agtgtcattt  
cttcaacggg 60  
  
acggagcggg tgcggttcct gcacagaggc atctataacc aagaggagaa  
cgtgcgcttc 120  
  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180  
  
tggaacagcc agaaggactt cctggaagac aggcgcgccg cggaggacac  
ctactgcaga 240  
  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2870  
<211> 250  
<212> DNA  
<213> Homo sapiens

<400> 2870  
ttgcagcagg ataagtatga gtgtcatttc ttcaacggga cggagcgggt  
gcggttcctg 60  
  
cacagaggca tctataacca agaggagaac gtgcgcttcg acagcgacgt  
gggggagtac 120  
  
cgggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca  
gaaggacttc 180  
  
ctggaagaca cgcgcgccgc ggtggacacc tactgcagac acaactacgg  
ggttggtgag 240  
  
agcttcacag  
250

<210> 2871  
<211> 283  
<212> DNA

<213> Homo sapiens

<400> 2871

ggggacaccc gaccacgttt cttgcagcag gataagtatg agtgtcattt  
cttcaacggg 60

acggagcggg tgcggttcct gcacagagac atctataacc aagaggagga  
cttgcgcttc 120

gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga  
cgctgagtac 180

tggaacagcc agaaggactt cctggaagac aggcgggccc tggtggaacac  
ctactgcaga 240

cacaactacg gggttggtga gagcttcaca gtgcagcggc gag  
283

<210> 2872

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2872

ccacgtttct tgcagcagga taagtatgag tgtcatttct tcaacgggac  
ggagcgggtg 60

cggttcctgc acagagacat ctataaccaa gaggaggacg tgcgcttcga  
cagcgacgtg 120

ggggagtacc gggcggtgac ggagctgggg cggcctgacg ctgagtactg  
gaacagccag 180

aaggacttcc tggaagacag gcgcgccgcg gtggacacct actgcagaca  
caactacggg 240

gttggtgaga gcttcacagt gcagcgg  
267

<210> 2873

<211> 269

<212> DNA

<213> Homo sapiens

<400> 2873

cacgttttctt gcagcaggat aagtatgagt gtcattttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcga  
269

<210> 2874

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2874

cacgttttctt gcagcaggat aagtatgagt gtcattttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2875

<211> 246

<212> DNA

<213> Homo sapiens

<400> 2875

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaaaacagg cgcgccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtg  
246

<210> 2876

<211> 268

<212> DNA

<213> Homo sapiens

<400> 2876

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcacacaa  
ctacgggggtt 240

ggtgagagct tcacagtgca gcggcgag  
268

<210> 2877

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2877

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacatcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2878

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2878

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagacatc tataaccaag aggaggactt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc cgagtcctgg  
aacagccaga 180

aggacttcct ggagcggagg cgggccgagg tggacaccgt gtgcagacac  
aactacgggg 240

ttggtgagag cttcacagtg cagcggcgag  
270

<210> 2879

<211> 370

<212> DNA

<213> Homo sapiens

<400> 2879

atggtgtgtc tgaagctccc tggaggttcc tacatggcag tgctgacagt  
gacactgatg 60

gtgctgagct ccccaactggc tttggctggg gacacccgac catgtttctt  
gcagcaggat 120

aagtatgagt gtcattttctt caacgggacg gagcgggtgc ggttcctgca  
cagaggcatc 180

tataaccaag aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg  
ggcgggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacatcct  
ggagcaggcg 300

cgggccgcgg tggacaccta ctgcagacac aactacgggg ctgtggagag  
cttcacagtg 360

cagcggcgag  
370

<210> 2880

<211> 262

<212> DNA

<213> Homo sapiens

<400> 2880

tttcttgag caggataagt atgagtgtca tttcttcaac gggacggagc  
gggtgcggtt 60

cctgcacaga ggcatttata accaagagga gaacgtgcgc ttcgacagcg  
acgtggggga 120

gtaccggggc gtgacggagc tggggcgggc tgacgctgag tactggaaca  
gccagaagga 180

catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact  
acgggggttg 240

tgagagcttc acagtgcagc gg  
262

<210> 2881

<211> 257

<212> DNA

<213> Homo sapiens

<400> 2881

catgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagggcatc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacttcct ggagcaggcg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcaca  
257

<210> 2882

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2882

catgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg  
gagcgggtgc 60

ggttcctgca cagagggcatc tataaccaag aggagaacgt gcgcttcgac  
agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg  
aacagccaga 180

aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac  
aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag  
270

<210> 2883

<211> 16

<212> DNA

<213> Homo sapiens

<400> 2883

ggtgcggttg ctggaa  
16

<210> 2884  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2884  
gcggttgctg gaaagat  
17

<210> 2885  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2885  
ctataaccaa gaggagtc  
18

<210> 2886  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2886  
ctgggggcggc ctgat  
15

<210> 2887  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2887  
gggcggcctg atgcc  
15

<210> 2888  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 2888  
cacaactacg gggttgg  
17

<210> 2889  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2889  
catctataac caagaggaa  
19

<210> 2890  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2890  
cgcggtggac acctat  
16

<210> 2891  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2891  
gacacaacta cggggc  
16

<210> 2892  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 2892  
agaggcgggc cgcc  
14

<210> 2893  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2893  
gaacagccag aaggaca  
17

<210> 2894  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2894  
ggacatcctg gaagacg  
17

<210> 2895  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2895  
gacatcctgg aagacga  
17

<210> 2896  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2896  
ggccgcggtg gacaat  
16

<210> 2897  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2897  
acaactacgg ggttgtg  
17

<210> 2898  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2898  
cttcgacagc gacgtga  
17

<210> 2899  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2899  
cctcctggag caggc  
15

<210> 2900  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2900  
cacgtttctt gtggg  
15

<210> 2901  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2901  
tctataacca agaggagta  
19

<210> 2902  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2902  
gacctcctgg agcagg  
16

<210> 2903  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2903  
gacctcctgg agcagaa  
17

<210> 2904  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2904  
ggagcgggtg cggta  
15

<210> 2905  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2905  
cctggacaga tacttcc  
17

<210> 2906  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2906

ccataaccag gaggaga  
17

<210> 2907  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2907  
ccataaccag gaggagaa  
18

<210> 2908  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2908  
gcgacgtggg ggagtt  
16

<210> 2909  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2909  
gcagaagcgg ggccg  
15

<210> 2910  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2910  
gggccgggtg gacaa  
15

<210> 2911  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 2911  
gggccgggtg gacaat  
16

<210> 2912  
<211> 13  
<212> DNA  
<213> Homo sapiens

<400> 2912  
cacgtttctt gga  
13

<210> 2913  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2913  
ggtgcggttc ctggag  
16

<210> 2914  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2914  
cctggagaga tacttcc  
17

<210> 2915  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2915  
cagatacttc cataaccag  
19

<210> 2916  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2916  
ttggtgagag cttcacg  
17

<210> 2917  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2917  
ggtgcggtac ctggac  
16

<210> 2918  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2918  
ggggcggcct gatga  
15

<210> 2919  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2919  
gggcggcctg atgag  
15

<210> 2920  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2920  
cagatacttc cataaccg  
18

<210> 2921  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 2921  
ctggggcggc ctgc  
14

<210> 2922  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2922  
agcagaagcg gggcc  
15

<210> 2923  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2923  
gcagaagcgg ggcca  
15

<210> 2924  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2924  
ggggccagggt ggacaa  
16



<210> 2925  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2925  
ctgggggcggc ctagc  
15

<210> 2926  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2926  
ggcctgatgc cgagtc  
16

<210> 2927  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2927  
gacgtggggg agttct  
16

<210> 2928  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2928  
gtttcttgga gtactctac  
19

<210> 2929  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2929

ggtgcggttc ctggac  
16

<210> 2930  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2930  
gtaccgggcg gtgag  
15

<210> 2931  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2931  
gggccaggtg gacaat  
16

<210> 2932  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2932  
ttcgacagcg acgtgc  
16

<210> 2933  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2933  
ccataaccag gaggagtt  
18

<210> 2934  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 2934  
cctggacaga tacttcg  
17

<210> 2935  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2935  
ccataaccag gaggagta  
18

<210> 2936  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2936  
atggtgtgtc tgaagt  
16

<210> 2937  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 2937  
gatacttcta tcaccaagaa  
20

<210> 2938  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2938  
tcttggagca ggttaaac  
18

<210> 2939  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2939  
ctatcaccaa gaggagta  
18

<210> 2940  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2940  
gcagaggcgg gccga  
15

<210> 2941  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2941  
gggcggcctg acgct  
15

<210> 2942  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2942  
cttggagcag gttaaaca  
18

<210> 2943  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2943  
ctggacagat acttctatc  
19

<210> 2944  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2944  
gctggggcgg cctag  
15

<210> 2945  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2945  
agaggagtac gtgcgg  
16

<210> 2946  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2946  
gcttcacagt gcagcga  
17

<210> 2947  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2947  
cctcctggag cagaga  
16

<210> 2948  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2948  
tttcttggag caggttaa  
19

<210> 2949  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2949  
agacaggcgg gccct  
15

<210> 2950  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2950  
gaacagccag aaggact  
17

<210> 2951  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2951  
aggacttcct ggaagac  
17

<210> 2952  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2952

ggcggcctga tgccc  
15

<210> 2953  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2953  
cggggttggtg gagaga  
16

<210> 2954  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2954  
ggacctcctg gagcg  
15

<210> 2955  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2955  
ctggggcggc ctgata  
16

<210> 2956  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2956  
agtaccgggc ggtgat  
16

<210> 2957  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 2957  
gggggagtac cgggt  
15

<210> 2958  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 2958  
gcagaggcgg gccc  
14

<210> 2959  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2959  
gcagaggcgg gccct  
15

<210> 2960  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2960  
tcctggagca gaggca  
16

<210> 2961  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2961  
caagaggagt acgtgca  
17



<210> 2962  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2962  
cttggagcag gttaaacc  
18

<210> 2963  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2963  
gacctcctgg aagacg  
16

<210> 2964  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2964  
gacctcctgg aagacga  
17

<210> 2965  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2965  
gacatcctgg agcagaa  
17

<210> 2966  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2966  
agcgacgtgg gggac  
15

<210> 2967  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2967  
ggggcggcct gatgg  
15

<210> 2968  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2968  
tctatcacca agaggaga  
18

<210> 2969  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2969  
ctatcaccaa gaggagaa  
18

<210> 2970  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2970  
ggctggggac accca  
15

<210> 2971  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 2971  
ggacaggcgg ggcc  
14

<210> 2972  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2972  
ccagggtggac accgtg  
16

<210> 2973  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2973  
tcctgtggca gggtaaa  
17

<210> 2974  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2974  
ggcggtgacg gagcta  
16

<210> 2975  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2975

gcctgtcgcc gagtc  
15

<210> 2976  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2976  
gtgcagttcc tggaaagt  
18

<210> 2977  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2977  
agtcctggaa cagccg  
16

<210> 2978  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 2978  
ggcggcctgc tgcg  
14

<210> 2979  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2979  
gtgacggagc tagggt  
16

<210> 2980  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 2980  
ctctacgggt gagtgtt  
17

<210> 2981  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2981  
cggttcctgg acagatat  
18

<210> 2982  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2982  
gctcctgcat ggcagt  
16

<210> 2983  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2983  
gtaccgggcg gtgaca  
16

<210> 2984  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2984  
cacaactacg gggttgt  
17

<210> 2985  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2985  
gttgttgaga gcttcacg  
18

<210> 2986  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2986  
ttgtggagag cttcacg  
17

<210> 2987  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2987  
gctggggcgg cctgt  
15

<210> 2988  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2988  
ggcctgctgc ggagc  
15

<210> 2989  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2989  
gtttcttgga gtactctag  
19

<210> 2990  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2990  
ggcctgatgc ggagc  
15

<210> 2991  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2991  
tctataacca agaggagg  
18

<210> 2992  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2992  
aggacatcct ggaagac  
17

<210> 2993  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2993  
gctggggcgg cctat  
15

<210> 2994  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 2994  
cttggagtac tctacgtc  
18

<210> 2995  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 2995  
gttttcttgga gtactctat  
19

<210> 2996  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 2996  
caactacggg gctgtg  
16

<210> 2997  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2997  
ctgtggagag cttcacg  
17

<210> 2998  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 2998



gagcttcaca gtgcaga  
17

<210> 2999  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 2999  
ctggagcggg ggcgt  
15

<210> 3000  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3000  
gttgctggaa agacgcg  
17

<210> 3001  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3001  
ctggagcggg ggcgc  
15

<210> 3002  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3002  
gaaggacttc ctggaag  
17

<210> 3003  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 3003  
cctggaagac aggcgc  
16

<210> 3004  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3004  
tgagtgtcat ttcttcaac  
19

<210> 3005  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3005  
gacttcctgg aagacga  
17

<210> 3006  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3006  
cttggagtac tctacgg  
17

<210> 3007  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3007  
ggacctcctg gaagac  
16

<210> 3008  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3008  
ggacttcctg gaagacg  
17

<210> 3009  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3009  
tctataacca agaggagtt  
19

<210> 3010  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3010  
cagatacttc tataaccag  
19

<210> 3011  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3011  
ctataaccag gaggagtt  
18

<210> 3012  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3012  
ataaccaaga ggaggact  
18

<210> 3013  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3013  
cggaggcggg ccga  
14

<210> 3014  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3014  
ccgaggtgga cacctat  
17

<210> 3015  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3015  
aagacaggcg ggccc  
15

<210> 3016  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3016  
ttggagtact ctacgtc  
17

<210> 3017  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3017  
gagtactcta cgtctgag  
18

<210> 3018  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3018  
cagaaggact tcctggaa  
18

<210> 3019  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3019  
ggccgcggtg gacaa  
15

<210> 3020  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3020  
ttctataacc aagaggaga  
19

<210> 3021  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3021

tctataacca agaggagaa  
19

<210> 3022  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3022  
cacgtttctt ggagct  
16

<210> 3023  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3023  
cggcctgatg aggagc  
16

<210> 3024  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3024  
agacaggcgg gccgt  
15

<210> 3025  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3025  
gcggcctgat gaggac  
16

<210> 3026  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 3026  
gcggcctgat gaggg  
15

<210> 3027  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3027  
gttccgggcg gtgag  
15

<210> 3028  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3028  
gctcctgcat ggcagtt  
17

<210> 3029  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3029  
ttggctgggg acacca  
16

<210> 3030  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3030  
ggagcgggtg cggtta  
16

<210> 3031  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3031  
ccataaccag gaggagc  
17

<210> 3032  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3032  
cagaaggaca tcctggg  
17

<210> 3033  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3033  
gagcgggtgc ggttc  
15

<210> 3034  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3034  
ggaagacgag cgggct  
16

<210> 3035  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 3035  
cctggaagac gagcgc  
16

<210> 3036  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3036  
ggacatcctg gaagacaa  
18

<210> 3037  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3037  
acgtttcttg gagtactc  
18

<210> 3038  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3038  
ggttcctgga cagatact  
18

<210> 3039  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3039  
acatcctgga gcaggc  
16

<210> 3040  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3040  
cacaactacg gggttga  
17

<210> 3041  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3041  
gagatacttc cataaccag  
19

<210> 3042  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3042  
ctgcagacac aactacc  
17

<210> 3043  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3043  
taaccaggag gagaacc  
17

<210> 3044  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3044

acgtggggga gttcct  
16

<210> 3045  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3045  
ctggggcggc ctgtc  
15

<210> 3046  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3046  
gggagttccg ggcgt  
15

<210> 3047  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3047  
cacgtttctt ggagtact  
18

<210> 3048  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3048  
tctacgtctg agtgtcaa  
18

<210> 3049  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 3049  
gggcggcctg atgct  
15

<210> 3050  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3050  
tttcttggag tactctac  
18

<210> 3051  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3051  
gacatcctgg agcagg  
16

<210> 3052  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3052  
gacggagcgg gtgca  
15

<210> 3053  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3053  
ggccgaggtg gacaat  
16

<210> 3054  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3054  
ttggagtacc ctacgtc  
17

<210> 3055  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3055  
taaccaggag gagttcc  
17

<210> 3056  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3056  
gggccgaggt ggacg  
15

<210> 3057  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3057  
ctccccactg gctttgt  
17

<210> 3058  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3058  
gcagacacaa ctacgga  
17

<210> 3059  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3059  
cacaactacg gagttgtg  
18

<210> 3060  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3060  
gtggcagcct aagagg  
16

<210> 3061  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3061  
tggacagata cttctataat  
20

<210> 3062  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3062  
cggttcctgg acagac  
16

<210> 3063  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3063  
acttcctgga gcaggc  
16

<210> 3064  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3064  
ggagttccgg gcggc  
15

<210> 3065  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3065  
ctggaacagc cagaaga  
17

<210> 3066  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3066  
acgtggggga gttcca  
16

<210> 3067  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3067

ctggaacagc caggggaca  
19

<210> 3068  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3068  
tcctggaaga cagggc  
16

<210> 3069  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3069  
gcgggtgcgg ttccc  
15

<210> 3070  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3070  
ctataaccag gaggagaa  
18

<210> 3071  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3071  
cgtttcttg agctgcg  
17

<210> 3072  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 3072  
ctcccgactg gctttc  
16

<210> 3073  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3073  
cacgtttctt ggagctgt  
18

<210> 3074  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3074  
cgtttcttg agctgtg  
17

<210> 3075  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3075  
ggtgcggtac ctggag  
16

<210> 3076  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3076  
gtttctcgga gctgcg  
16

<210> 3077  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3077  
cgggtgcggt acctga  
16

<210> 3078  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3078  
accaggagga gtacgc  
16

<210> 3079  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3079  
ccaggaggag ttcctga  
17

<210> 3080  
<211> 12  
<212> DNA  
<213> Homo sapiens

<400> 3080  
cacgtttctt gg  
12

<210> 3081  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3081  
cggttcctgg agagac  
16

<210> 3082  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3082  
gtggacaatt actgcagg  
18

<210> 3083  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3083  
gggcggcctg atgcg  
15

<210> 3084  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3084  
agacacttcc ataaccag  
18

<210> 3085  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3085  
accaggagga gaacgc  
16

<210> 3086  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3086  
ggagcgggtg cggc  
14

<210> 3087  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3087  
cacaactacg gggttgc  
17

<210> 3088  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3088  
gcagacacaa ctacggc  
17

<210> 3089  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3089  
gctgacagtg acattgac  
18

<210> 3090  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3090

cgggccgagg tggg  
14

<210> 3091  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3091  
agtgtgagtg tcatttcc  
18

<210> 3092  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3092  
ggagcgagtg tggaac  
16

<210> 3093  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3093  
ggacacctac tgcagat  
17

<210> 3094  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3094  
cgcgctacaa cagtgat  
17

<210> 3095  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 3095  
gggccgaggt ggacaa  
16

<210> 3096  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3096  
tggacaacta ctgcagat  
18

<210> 3097  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3097  
acggagcgag tgtgga  
16

<210> 3098  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3098  
aggttcctac atggcaaa  
18

<210> 3099  
<211> 12  
<212> DNA  
<213> Homo sapiens

<400> 3099  
cacgtttctt gc  
12

<210> 3100  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3100  
atctataacc aagaggaga  
19

<210> 3101  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3101  
cggttcctgc acagag  
16

<210> 3102  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3102  
gacttcctgg aagacac  
17

<210> 3103  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3103  
cctggaagac acgcgc  
16

<210> 3104  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3104  
gaaggacatc ctggaag  
17

<210> 3105  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3105  
agaaggactt cctggaaa  
18

<210> 3106  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3106  
gcctgacgcc gagtc  
15

<210> 3107  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3107  
aggacttcct ggagcg  
16

<210> 3108  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3108  
cgagggtggac accgtg  
16



<210> 3109  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3109  
ctccctggag gttccta  
17

<210> 3110  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3110  
gttgctggaa agatgcat  
18

<210> 3111  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3111  
ctggaaagat gcatctata  
19

<210> 3112  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3112  
gaggagtccg tgcgc  
15

<210> 3113  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3113

cggcctgatg ccgag  
15

<210> 3114  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3114  
cctgatgccg agtactg  
17

<210> 3115  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3115  
cggggttggt gagagc  
16

<210> 3116  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3116  
caagaggaat ccgtgcg  
17

<210> 3117  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3117  
ggacacctat tgcagaca  
18

<210> 3118  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 3118  
ctacggggct gtggag  
16

<210> 3119  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3119  
gggccgccgt ggac  
14

<210> 3120  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3120  
cagaaggaca tcctggaa  
18

<210> 3121  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3121  
ggaagacgag cgggc  
15

<210> 3122  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3122  
gaagacgagc gggcc  
15

<210> 3123  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3123  
ggtggacaat tactgcag  
18

<210> 3124  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3124  
ggggttgtgg agagct  
16

<210> 3125  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3125  
cgacgtgagg gagtac  
16

<210> 3126  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3126  
gagcaggcgc gggc  
14

<210> 3127  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3127  
ttcttgtggg agcttaag  
18

<210> 3128  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3128  
agaggagtac gtgcgc  
16

<210> 3129  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3129  
gagcaggcgc gggc  
14

<210> 3130  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3130  
gagcagaagc gggcc  
15

<210> 3131  
<211> 8  
<212> DNA  
<213> Homo sapiens

<400> 3131  
caccagac  
8

<210> 3132  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3132  
ggtgcggtac ctggac  
16

<210> 3133  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3133  
ggtggacaac tactgca  
17

<210> 3134  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3134  
cgggggccggg tgga  
14

<210> 3135  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3135  
gttcctggag agatactt  
18

<210> 3136  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3136

agataacttcc ataaccagg  
19

<210> 3137  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3137  
ggaggagaac gtgcgc  
16

<210> 3138  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3138  
ggaggagaac gtgcgc  
16

<210> 3139  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3139  
cataaccagg aggagtc  
17

<210> 3140  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3140  
ggggagttcc gggcg  
15

<210> 3141  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 3141  
agcttcacgg tgcagc  
16

<210> 3142  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3142  
gtacctggac agatactt  
18

<210> 3143  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3143  
gcctgatgag gagtact  
17

<210> 3144  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3144  
cctgatgagg agtactg  
17

<210> 3145  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3145  
ccataaccgg gaggag  
16



<210> 3146  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3146  
cggcctgctg cggag  
15

<210> 3147  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3147  
gcggggccag gtgga  
15

<210> 3148  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3148  
cgggggccagg tggac  
15

<210> 3149  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3149  
cggcctagcg ccgag  
15

<210> 3150  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3150  
cggcctagcg ccgag  
15

<210> 3151  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3151  
tgccgagtcc tggaac  
16

<210> 3152  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3152  
ggagttcttg gcggtg  
16

<210> 3153  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3153  
agtactctac gtctgagt  
18

<210> 3154  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3154  
gttcctggac agatactt  
18

<210> 3155  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3155  
gcggtgaggg agctg  
15

<210> 3156  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3156  
cgacgtgcgg gagttc  
16

<210> 3157  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3157  
agaaggacat cctggag  
17

<210> 3158  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3158  
ggaggagttc gtgcgc  
16

<210> 3159  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3159

agataacttcg ataaccagg  
19

<210> 3160  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3160  
ccataaccag gaggagta  
18

<210> 3161  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3161  
ggaggagtac gtgcgc  
16

<210> 3162  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3162  
gtctgaagtt ccctgga  
17

<210> 3163  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3163  
tcaccaagaa gagtacgt  
18

<210> 3164  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 3164  
caggttaaac atgagtgtc  
19

<210> 3165  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3165  
cgggccgagg tggac  
15

<210> 3166  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3166  
cctgacgctg agtactg  
17

<210> 3167  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3167  
aggttaaaca tgagtgtca  
19

<210> 3168  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3168  
tacttctatc accaagagg  
19

<210> 3169  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3169  
tacgtgcggt tcgacag  
17

<210> 3170  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3170  
gagcagagac gggcc  
15

<210> 3171  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3171  
gcaggttaaa catgagtg  
18

<210> 3172  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3172  
cgggccctgg tggac  
15

<210> 3173  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3173  
cagaaggact tcctggaa  
18

<210> 3174  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3174  
ctggaagaca ggcggg  
16

<210> 3175  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3175  
ctgatgccca gtactgg  
17

<210> 3176  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3176  
tgtggagaga ttcacagt  
18

<210> 3177  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3177  
ctggagcgga ggcgg  
15

<210> 3178  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3178  
gcggggccctg gtgga  
15

<210> 3179  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3179  
ggcctgatac cgagtac  
17

<210> 3180  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3180  
ggcggtgatg gagctg  
16

<210> 3181  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3181  
gtaccgggtg gtgacg  
16

<210> 3182  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3182



cagaggcagg ccgcg  
15

<210> 3183  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3183  
gtacgtgcac ttcgaca  
17

<210> 3184  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3184  
caggttaaac ctgagtgt  
18

<210> 3185  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3185  
aggttaaacc tgagtgtc  
18

<210> 3186  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3186  
gtgggggact accgg  
15

<210> 3187  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 3187  
gcctgatggc gaggac  
16

<210> 3188  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3188  
agaggagaac gtgcgc  
16

<210> 3189  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3189  
agaggagaac gtgcgc  
16

<210> 3190  
<211> 7  
<212> DNA  
<213> Homo sapiens

<400> 3190  
acccaac  
7

<210> 3191  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3191  
gacaccgtgt gcagac  
16

<210> 3192  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3192  
gcagggtaaa tataagtgt  
19

<210> 3193  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3193  
acggagctag ggcgg  
15

<210> 3194  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3194  
cgccgagtcc tggaac  
16

<210> 3195  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3195  
cctggaaagt ctcttcta  
18

<210> 3196  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3196  
gaacagccgg aaggac  
16

<210> 3197  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3197  
cctgctgcgg agtact  
16

<210> 3198  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3198  
gctaggggtgg cctgtc  
16

<210> 3199  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3199  
ggtgagtgtt atttcttca  
19

<210> 3200  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3200  
tggacagata tttctataac  
20

<210> 3201  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3201  
gtgtctgagg ctccct  
16

<210> 3202  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3202  
gcggtgacag agctgg  
16

<210> 3203  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3203  
cggggttggtt gagagc  
16

<210> 3204  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3204  
cggcctgttg ccgag  
15

<210> 3205  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3205

tgcgagcac tggaac  
16

<210> 3206  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3206  
gtactctacg ggtgagt  
17

<210> 3207  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3207  
cggcctgctg ccgag  
15

<210> 3208  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3208  
gtactctagg ggtgagt  
17

<210> 3209  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3209  
agaggaggac gtgcgc  
16

<210> 3210  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 3210  
cggcctatcg ccgag  
15

<210> 3211  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3211  
ctctacgtct gagtgtc  
17

<210> 3212  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3212  
agtactctat gggtgagt  
18

<210> 3213  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3213  
ggggctgtgg agagc  
15

<210> 3214  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3214  
gtgcggtatc tgcacag  
17

<210> 3215  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3215  
ggaggcgtgc cgcg  
14

<210> 3216  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3216  
gaaagacgcg tccataac  
18

<210> 3217  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3217  
ggaggcgcgc cgcg  
14

<210> 3218  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3218  
cctggaagac aggcgc  
16

<210> 3219  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 3219  
ctggaagaca ggcgcg  
16

<210> 3220  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3220  
acaggcgcgc cgcg  
14

<210> 3221  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3221  
ttcttcaacg ggacgga  
17

<210> 3222  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3222  
actctacggg tgagtgt  
17

<210> 3223  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3223  
ccataaccag gaggagaa  
18

<210> 3224  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3224  
ccataaccag gaggagtt  
18

<210> 3225  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3225  
agaggagttc gtgcgc  
16

<210> 3226  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3226  
ctataaccag gaggagtt  
18

<210> 3227  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3227  
ggaggacttg cgcttc  
16

<210> 3228  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3228

cctggaagac aggcgg  
16

<210> 3229  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3229  
tacgtctgag tgcatttc  
19

<210> 3230  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3230  
ttcctggaag acaggcg  
17

<210> 3231  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3231  
tcttggagct gcttaagt  
18

<210> 3232  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3232  
gcctgatgag gagcac  
16

<210> 3233  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 3233  
atgaggagca ctggaac  
17

<210> 3234  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3234  
cgggccgtgg tggac  
15

<210> 3235  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3235  
tgatgaggac tactggaa  
18

<210> 3236  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3236  
tgatgagggg tactgga  
17

<210> 3237  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3237  
catggcagtt ctgacagt  
18

<210> 3238  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3238  
gtgcggttac tggagag  
17

<210> 3239  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3239  
ggaggagctc ctgcg  
15

<210> 3240  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3240  
catcctggga gacagg  
16

<210> 3241  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3241  
gtgcggttcc tggaga  
16

<210> 3242  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3242  
gagcgggctg cggtg  
15

<210> 3243  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3243  
gaagacgagc gcgcc  
15

<210> 3244  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3244  
acgagcgcg cgcg  
14

<210> 3245  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3245  
ctggaagaca agcggg  
16

<210> 3246  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3246  
ggaagacaag cgggcc  
16

<210> 3247  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3247  
ggagtactct acgtctg  
17

<210> 3248  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3248  
gacagatact tctataacc  
19

<210> 3249  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3249  
cgggggttgat gagagc  
16

<210> 3250  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3250  
acaactaccg ggttgtg  
17

<210> 3251  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3251

cggcctgtcg ccgag  
15

<210> 3252  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3252  
ggagaacctg cgcttc  
16

<210> 3253  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3253  
ggagttcctg gcggtg  
16

<210> 3254  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3254  
cggcctgtcg ccgag  
15

<210> 3255  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3255  
ccgggcgttg acgga  
15

<210> 3256  
<211> 18



<212> DNA  
<213> Homo sapiens

<400> 3256  
ttggagtact ctacgtct  
18

<210> 3257  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3257  
ctgagtgtca attcttcaat  
20

<210> 3258  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3258  
cctgatgctg agtactg  
17

<210> 3259  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3259  
gtttcttgga gtactctac  
19

<210> 3260  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3260  
gcgggtgcag ttcttg  
16

<210> 3261  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3261  
cgacgtgcgg gagtac  
16

<210> 3262  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3262  
ccctacgtct gagtgtc  
17

<210> 3263  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3263  
ggaggagttc ctgcgc  
16

<210> 3264  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3264  
ggagttcctg cgcttc  
16

<210> 3265  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3265  
ggtggacgcc tattgc  
16

<210> 3266  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3266  
ggctttgtct ggggac  
16

<210> 3267  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3267  
caactacgga gttgtgga  
18

<210> 3268  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3268  
ggagttgtgg agagctt  
17

<210> 3269  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3269  
cctaagaggg agtgtca  
17

<210> 3270  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3270  
cttctataat caggaggag  
19

<210> 3271  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3271  
ctggacagac acttctat  
18

<210> 3272  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3272  
agaaggactt cctggag  
17

<210> 3273  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3273  
cgggcggcga cgga  
14

<210> 3274  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3274

gccagaagaa catcctg  
17

<210> 3275  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3275  
ggagttccag gcggtg  
16

<210> 3276  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3276  
caagggacat cctggagc  
18

<210> 3277  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3277  
gacagggccg ccgc  
14

<210> 3278  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3278  
gcggttcccg gacaga  
16

<210> 3279  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 3279  
ggagctgcgt aagtctg  
17

<210> 3280  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3280  
ctggctttcg ctgggg  
16

<210> 3281  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3281  
ttggagctgt gtaagtct  
18

<210> 3282  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3282  
ggagctgtgt aagtctg  
17

<210> 3283  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3283  
gtacctggag agatactt  
18

<210> 3284  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3284  
cggtacctga acagatac  
18

<210> 3285  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3285  
gagcagaagc ggggc  
15

<210> 3286  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3286  
ggagtacgcg cgcttc  
16

<210> 3287  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3287  
agttcctgag cttcgac  
17

<210> 3288  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3288  
cgtttcttgg agctgctt  
18

<210> 3289  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3289  
ctggagagac acttccat  
18

<210> 3290  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3290  
ttactgcagg cacaacta  
18

<210> 3291  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3291  
cctgatgcgg agtactg  
17

<210> 3292  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3292  
ggaggagaac gcgcg  
15



<210> 3293  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3293  
ggagaacgcg cgcttc  
16

<210> 3294  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3294  
cgtttcttgc agctgctt  
18

<210> 3295  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3295  
ggtgcggctc ctgga  
15

<210> 3296  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3296  
cggggttgct gagagc  
16

<210> 3297  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3297

aactacggcg ttgtgga  
17

<210> 3298  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3298  
gacattgacg gtgctga  
17

<210> 3299  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3299  
cgaggtgggc acctac  
16

<210> 3300  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3300  
gtgtggaacc tgatcag  
17

<210> 3301  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3301  
ggacacctat tgcagata  
18

<210> 3302  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 3302  
aacagtgatc tggggga  
17

<210> 3303  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3303  
tactgcagat acaactacg  
19

<210> 3304  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3304  
tgtcatttcc tcaatggg  
18

<210> 3305  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3305  
gagtgtggaa cctgatc  
17

<210> 3306  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3306  
catggcaaag ctgacag  
17

<210> 3307  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3307  
cgtttcttgc agcaggat  
18

<210> 3308  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3308  
ctgcacagag gcatctat  
18

<210> 3309  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 3309  
gaagacacgc gcgcc  
15

<210> 3310  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 3310  
acacgcgcgc cgcg  
14

<210> 3311  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3311  
cctggaaaac aggcgc  
16

<210> 3312  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3312  
aggttcctac atggcag  
17

<210> 3313  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3313  
tgtttcttgc agcaggat  
18

<210> 3314  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3314  
agagtactcc aagaaacgtg  
20

<210> 3315  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3315  
ccgctgcacc gtgaagct  
18

<210> 3316  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3316  
tcgctgcact gtgaagct  
18

<210> 3317  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3317  
cctctgcact gtgaagct  
18

<210> 3318  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 3318  
ccggatcctt cgtgtcccca cagcacg  
27

<210> 3319  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 3319  
aaccgccgtag ttgtgtctgc a  
21

<210> 3320  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3320

tgggacagag agaccaga  
18

<210> 3321  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3321  
tcccaaaacc tggagacta  
19

<210> 3322  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3322  
ggaactacgg cgatatctaa  
20

<210> 3323  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3323  
cggcgatatc taaaatccg  
19

<210> 3324  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3324  
cctggaatat cacactgag  
19

<210> 3325  
<211> 25

<212> DNA  
<213> Homo sapiens

<400> 3325  
tatttttgtt attattattt tctac  
25

<210> 3326  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3326  
cctcacggtg ctgtccg  
17

<210> 3327  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3327  
gtgaatgtca cccgcagt  
18

<210> 3328  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3328  
cgtagtcctg aggagaag  
18

<210> 3329  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3329  
tcagcctctg atgtcagc  
18



<210> 3330  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3330  
cagcccttcc tgcgcta  
17

<210> 3331  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3331  
gagactgagg aatggacag  
19

<210> 3332  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3332  
cccggaatat cacactgac  
19

<210> 3333  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3333  
gccaccagga tttgccg  
17

<210> 3334  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3334  
gcgatatcta gaatccagca  
20

<210> 3335  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3335  
gggacagaga gaccagg  
17

<210> 3336  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3336  
cccaaaacct ggagactg  
18

<210> 3337  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3337  
gtttctgctg ttgctgctg  
19

<210> 3338  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3338  
agacctgggt ggccact  
17

<210> 3339  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3339  
tgctgctggc tgctgct  
17

<210> 3340  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3340  
cacccgcagc gaggca  
16

<210> 3341  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3341  
ctcttcctct ccctaaacg  
19

<210> 3342  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3342  
gctcccagca tttctactat  
20

<210> 3343  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3343

cggcgatatc tagaatcca  
19

<210> 3344  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3344  
gtcagctctt ggggccg  
17

<210> 3345  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3345  
ccatgaagac caagacact  
19

<210> 3346  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3346  
tgccaaggag aggagcaa  
18

<210> 3347  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3347  
gaactacggc gatattctag  
19

<210> 3348  
<211> 20

<212> DNA  
<213> Homo sapiens  
  
<400> 3348  
ccagcatttc tactacgata  
20

<210> 3349  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3349  
gctgcagagg gtccagg  
17

<210> 3350  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3350  
ctggcgtcag gatgggc  
17

<210> 3351  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3351  
ggcttgcatt ccctccg  
17

<210> 3352  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3352  
cccagttggg acgagtgt  
18

<210> 3353  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3353  
ctgctgctgc tgctgct  
17

<210> 3354  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3354  
agaagatgtc ctgggaaac  
19

<210> 3355  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3355  
tgtgcagtca gggtttctt  
19

<210> 3356  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3356  
gcctcagagg gcaacatc  
18

<210> 3357  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3357  
ctgctgctgc tgctgct  
17

<210> 3358  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3358  
ttctatcccc ggaatatcat  
20

<210> 3359  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3359  
gttgctgctg ctgctgct  
18

<210> 3360  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3360  
cagaccttgg ccatgaaca  
19

<210> 3361  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3361  
ggaatcacag cactcacg  
18

<210> 3362  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3362  
acggcgatat ctaaaatcca  
20

<210> 3363  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3363  
ctctcccaaa acctggagt  
19

<210> 3364  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3364  
ttcttgaagg aagatgccg  
19

<210> 3365  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3365  
catgaagaca acagcaccaa  
20

<210> 3366  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3366



gggttttctcg ctgaggg  
17

<210> 3367  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3367  
caaggagagg agcagagt  
18

<210> 3368  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3368  
ggccaccagg atttgcg  
17

<210> 3369  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3369  
cagggcttct ggcttctg  
18

<210> 3370  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3370  
agaaaacatc agctgcagat  
20

<210> 3371  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 3371  
atcaacaccc agttgggat  
19

<210> 3372  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3372  
agagaccaga gacttgaca  
19

<210> 3373  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3373  
ctggagacta aggaatgga  
19

<210> 3374  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3374  
cgatatctaa aatccggcg  
19

<210> 3375  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3375  
ctaaaatccg gcgtagtcc  
19

<210> 3376  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3376  
cacactgagc tggcgtc  
17

<210> 3377  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 3377  
attatttttct acgtctgttg tt  
22

<210> 3378  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3378  
tgctgtccgg ggatgga  
17

<210> 3379  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3379  
acccgcagtg aggcctc  
17

<210> 3380  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3380  
gaggagaaga gtgcccc  
17

<210> 3381  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3381  
tgatgtcagc tcttgggtc  
19

<210> 3382  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3382  
cctgcgctat gacaggc  
17

<210> 3383  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3383  
gaatggacag tgccccag  
18

<210> 3384  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3384  
cacactgacc tggcgtc  
17

<210> 3385  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3385  
ggatttgccg aggagagg  
18

<210> 3386  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3386  
gaatccagca tagtcctga  
19

<210> 3387  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3387  
agagaccagg gacttgac  
18

<210> 3388  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3388  
ctggagactg aggaatgg  
18

<210> 3389  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3389

gttgctgctg gctgctg  
17

<210> 3390  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3390  
ggtggccact aggatttg  
18

<210> 3391  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3391  
gctgctggct gctgcta  
17

<210> 3392  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3392  
agcgaggcat cagaggg  
17

<210> 3393  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3393  
tcccaaaacg tggagactg  
19

<210> 3394  
<211> 20

<212> DNA  
<213> Homo sapiens

<400> 3394  
atttctacta tgatggggag  
20

<210> 3395  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3395  
ctagaatcca gcgtagtcc  
19

<210> 3396  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3396  
tgggtccgct ggctcc  
16

<210> 3397  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3397  
ccaagacact ctatcacgc  
19

<210> 3398  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3398  
agaggagcaa aggttcacc  
19

<210> 3399  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3399  
cgatatctag aatccggcg  
19

<210> 3400  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3400  
tactacgata gggagctct  
19

<210> 3401  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 3401  
gggtccaggg ctcgtg  
16

<210> 3402  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3402  
caggatgggc tatctttga  
19

<210> 3403  
<211> 19  
<212> DNA  
<213> Homo sapiens



<400> 3403  
attccctccg ggagattag  
19

<210> 3404  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3404  
tgctgctgct gctgctat  
18

<210> 3405  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3405  
ctgctgctgc tatttttggt  
20

<210> 3406  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3406  
cctgggaaac aagacatgg  
19

<210> 3407  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3407  
agggtttctt gctgaggta  
19

<210> 3408  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3408  
gggcaacatc accgtgac  
18

<210> 3409  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3409  
gctgctgctg ctgctatt  
18

<210> 3410  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3410  
cggaatatca tactgacctg  
20

<210> 3411  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 3411  
gccatgaaca tcaggaattt  
20

<210> 3412  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3412

gcactcacgc tgtgccc  
17

<210> 3413  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3413  
ctaaaatcca gcgtagtcc  
19

<210> 3414  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3414  
aacctggagt ctgaggaat  
19

<210> 3415  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3415  
gaagatgccg tgaagacc  
18

<210> 3416  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 3416  
cagcaccaag agctccc  
17

<210> 3417  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 3417  
cgctgagggg catctgg  
17

<210> 3418  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3418  
ggagcagagt ttcacctg  
18

<210> 3419  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 3419  
aggatttgcg aaggagagg  
19

<210> 3420  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3420  
ctggcttctg tccctgga  
18

<210> 3421  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3421  
agctgcagat ggtccaga  
18

<210> 3422  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 3422  
cagttgggat gagtgacc  
18

<210> 3423  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 3423  
agtggagcca gtggacccaa ga  
22

<210> 3424  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 3424  
tgatgttttc ttcttacaac aac  
23

<210> 3425  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 3425  
gtcttcgtta taacctcacg gt  
22

<210> 3426  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 3426  
gctcgtgagc ctgcaggacc tg  
22

<210> 3427  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 3427  
agtggagcca gtggaccaca ga  
22

<210> 3428  
<211> 1082  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (873)..(875)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (882)..(899)  
<223> n is a, c, g, or t

<400> 3428  
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctca 60

ctgaggtaca tctggatggc cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gagacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctaaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctnnngctgc tnnnnnnnnn  
nnnnnnnnna 900

tttttgttat tattattttc tatgtccgtt gttgtaagaa gaaaacatca  
gctgcagagg 960

gtccagagct cgtgagcctg caggtcctgg atcaacaccc agttgggacg  
agtgaccaca 1020

gggatgccac acagctcgga tttcagcctc tgatgtcaga tcttgggtcc  
actggctcca 1080

ct  
1082

<210> 3429  
<211> 1076  
<212> DNA  
<213> Homo sapiens

<400> 3429  
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60  
  
ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120  
  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180  
  
gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240  
  
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300  
  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360  
  
ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420  
  
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480  
  
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540  
  
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600  
  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660  
  
gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720  
  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780



gcgggaatca cagcaactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctgctgct  
gctatTTTTg 900

ttattattat tttctacgtc tgttgttgta agaagaaaac atcagctgca  
gaggggtccag 960

agctcgtgag cctgcaggtc ctggatcaac acccagttgg gacgagtga  
cacagggatg 1020

ccacacagct cggatttcag cctctgatgt cagatcttgg gtccactggc  
tccact 1076

<210> 3430

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3430

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggc cagcccttc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3431

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3431

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
agagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

ttttctatgt ccgttggtgt aagaagaaaa catcagctgc agagggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact  
1067

<210> 3432

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3432

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgagggtaca tctggatggt cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3433

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3433

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtggcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcatagt cctgaggaga  
acagtgcccc 540

ccatgggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctgggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

TTTTctatgt ccgttggtgt aagaagaaaa catcagctgc agagggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact  
1067

<210> 3434

<211> 945

<212> DNA

<213> Homo sapiens

<400> 3434

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctgggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attatthttct 900

atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag  
945

<210> 3435

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3435

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3436

<211> 1065

<212> DNA

<213> Homo sapiens

<400> 3436

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggcct gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420



atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatctttgt  
tattattatt 900

ttctatgtcc gttgttgtaa gaagaaaaca tcagctgcag aggggtccaga  
gctcgtgagc 960

ctgcagggtc tggatcaaca cccagttggg acgagtgacc acagggatgc  
cacacagctc 1020

ggatttcagc ctctgatgtc agctcttggg tccactggct ccact  
1065

<210> 3437

<211> 949

<212> DNA

<213> Homo sapiens

<400> 3437

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgagggtaca tctggatggt cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtggcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtggccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatgg gaatggaacc  
taccagacct 720

gggtggccac taggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatTTTTgt  
tattattatt 900

ttctatgtcc gttgttgtaa gaagaaaaca tcagctgcag aggggtccag  
949

<210> 3438

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3438

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtggcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcat cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatatc tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3439  
<211> 1067  
<212> DNA  
<213> Homo sapiens

<400> 3439  
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60  
  
ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120  
  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180  
  
gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240  
  
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300  
  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360  
  
ctgaggaatg gacagtgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420  
  
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480  
  
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcccc 540  
  
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600  
  
cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660  
  
gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720  
  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcaactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

TTTTctatgt ccgttggtgt aagaagaaaa catcagctgc agaggggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact  
1067

<210> 3440

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3440

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactatgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccggtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

ttttctatgt ccgttggtgt aagaagaaaa catcagctgc agaggggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact  
1067

<210> 3441

<211> 1064

<212> DNA

<213> Homo sapiens

<400> 3441

gtcttcctta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttggt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggccagag  
ctcgtgagcc 960

tgcaggctct ggatcaacac ccagttggga cgagtgacca cagggatgcc  
acacagctcg 1020

gatttcagcc tctgatgtca gctcttgggt ccaactggctc cact  
1064

<210> 3442  
<211> 1067  
<212> DNA  
<213> Homo sapiens

<400> 3442  
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60  
  
ctgaggtaca tctggatggc cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120  
  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180  
  
gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240  
  
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300  
  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360  
  
ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420  
  
atttcttgaa ggaagatgcc gtgaagacca agacacacta tcacgctatg  
catgcagact 480  
  
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540  
  
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600  
  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660  
  
gccacgacac ccagcagtgg ggggatgtcc tgccctgatg gaatggaacc  
taccagacct 720  
  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780



gcgggaatca cagcaactcac gctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

TTTTctatgt ctgttggtgt aagaagaaaa catcagctgc agagggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccgctgg ctccact  
1067

<210> 3443

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 3443

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctca 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gagacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attattttct 900

atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccagagctc  
gtgagcctgc 960

aggtcctgga tcaacaccca gttgggacga gtgaccacag ggatgccaca  
cagctcggat 1020

ttcagcctct gatgtcagat cttgggtcca ctggctccac t  
1061

<210> 3444

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3444

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctca 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gagacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcaaagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3445

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3445

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3446

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3446

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
agagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ct  
812

<210> 3447

<211> 969

<212> DNA

<213> Homo sapiens

<400> 3447

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggttttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctgggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctggaaagtg ctggtgcttc  
agagtcattg 840

gcagacattc catgtttctg ctgttgctgc tgctgctgct gctgctgctg  
ctatTTTTgt 900

tattattatt ttctacgtct gttgttgtaa gaagaaaaca tcagctgcag  
agggtccagg 960

gctcgtgag  
969

<210> 3448

<211> 1064

<212> DNA

<213> Homo sapiens

<400> 3448

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatatc tgacctggcg tcaggatggg  
ctatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttggt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggccagag  
ctcgtgagcc 960

tgcaggtcct ggatcaacac ccagttggga cgagtgacca cagggatgcc  
acacagctcg 1020

gatttcagcc tctgatgtca gctcttgggt ccactggctc cact  
1064

<210> 3449

<211> 969

<212> DNA

<213> Homo sapiens

<400> 3449

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc cgggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360



ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctggaaagtg ctggtgcttc  
agagtcattg 840

gcagacattc catgtttctg ctgttgctgc tgctgctgct gctgctgctg  
ctatTTTTgt 900

tattattatt ttctacgtct gttgttgtaa gaagaaaaca tcagctgcag  
agggtccagg 960

gctcgtgag  
969

<210> 3450

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 3450

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctca 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg	acagtgggca	gaagatgtcc	tgggaaataa	gacatgggac
agagagacca	180			
gagacttgac	agggaacgga	aaggacctca	ggatgaccct	ggctcatatc
aaggaccaga	240			
aagaaggctt	gcattccctc	caggagatta	gggtctgtga	gatccatgaa
gacaacagca	300			
ccaggagctc	ccagcatttc	tactacgatg	gggagctctt	cctctcccaa
aacctggaga	360			
ctgaggaatg	gacaatgccc	cagtcctcca	gagctcagac	cttggccatg
aacgtcagga	420			
atttcttgaa	ggaagatgcc	atgaagacca	agacacacta	tcacgctatg
catgcagact	480			
gcctgcagga	actacggcga	tatctaaaat	ccggcgtagt	cctgaggaga
acagtgcccc	540			
ccatggtgaa	tgtcacccgc	agcgaggcct	cagagggcaa	cattaccgtg
acatgcaggg	600			
cttctggcct	ctatccctgg	aatatcacac	tgagctggcg	tcaggatggg
gtatctttga	660			
gccacgacac	ccagcagtgg	ggggatgtcc	tgccctgatg	gaatggaacc
taccagacct	720			
gggtggccac	caggatttgc	caaggagagg	agcagagggt	cacctgctac
atggaacaca	780			
gcgggaatca	cagcactcac	cctgtgccct	ctgggaaagt	gctggtgctt
cagagtcatt	840			
ggcagacatt	ccatgtttct	gctgttgctg	ctgctgctat	ttttgttatt
attattttct	900			
atgtccgttg	ttgtaagaag	aaaacatcag	ctgcagaggg	tccagagctc
gtgagccctg	960			
aggtcctgga	tcaacaccca	gttgggacga	gtgaccacag	ggatgccaca
cagctcgat	1020			

ttcagcctct gatgtcagat cttgggtcca ctggctccac t  
1061

<210> 3451

<211> 997

<212> DNA

<213> Homo sapiens

<400> 3451

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttggt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggccagag  
ctcgtgagcc 960

tgcaggtcct ggatcaacac ccagttggga cgagtgt  
997

<210> 3452

<211> 963

<212> DNA

<213> Homo sapiens

<400> 3452

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctgctgct  
gctgctattt 900

ttgttattat tattttctac gtctgttggt gtaagaagaa aacatcagct  
gcagagggtc 960

cag  
963

<210> 3453

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3453

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctca 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaacaa gacatgggac  
agagagacca 180

gagacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3454

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3454

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3455

<211> 920

<212> DNA

<213> Homo sapiens

<400> 3455

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatTTTTgt  
tattattatt 900

ttctatgtcc gttgttgtaa  
920

<210> 3456

<211> 813

<212> DNA



<213> Homo sapiens

<400> 3456

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3457  
<211> 813  
<212> DNA  
<213> Homo sapiens

<400> 3457  
gtcttcctta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60  
  
ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120  
  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180  
  
gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240  
  
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300  
  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360  
  
ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420  
  
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480  
  
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540  
  
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600  
  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660  
  
gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720  
  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3458

<211> 951

<212> DNA

<213> Homo sapiens

<400> 3458

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggc cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

ttttctatgt ccgttggtgt aagaagaaaa catcagctgc agagggtcca g  
951

<210> 3459

<211> 948

<212> DNA

<213> Homo sapiens

<400> 3459

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtggcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttgtt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga ggggccag  
948

<210> 3460

<211> 920

<212> DNA

<213> Homo sapiens

<400> 3460

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgtccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgtccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctggctgctg ctatctttgt  
tattattatt 900

ttctatgtcc gttgttgtaa  
920

<210> 3461

<211> 945

<212> DNA

<213> Homo sapiens

<400> 3461

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacatcagga 420

atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attatcttct 900

atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag  
945

<210> 3462

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3462

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggttttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctgggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac gctgtgccct ctg  
813

<210> 3463

<211> 813

<212> DNA



<213> Homo sapiens

<400> 3463

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctaaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctgggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3464  
<211> 813  
<212> DNA  
<213> Homo sapiens

<400> 3464  
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60  
  
ctgaggtaca tctggatggt cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120  
  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180  
  
gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240  
  
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300  
  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360  
  
ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420  
  
atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg  
catgcagact 480  
  
gcctgcagga actacggcga tatctaaaat ccagcgtagt cctgaggaga  
agagtgcccc 540  
  
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600  
  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660  
  
gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720  
  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcaactcac cctgtgccct ctg  
813

<210> 3465

<211> 948

<212> DNA

<213> Homo sapiens

<400> 3465

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggc cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggagt 360

ctgaggaatg gacagtgcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttggt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga ggggccag  
948

<210> 3466

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3466

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc gtgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3467

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3467

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatatc tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3468

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3468

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaagagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3469

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3469

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatatc tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3470

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3470

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300



ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3471

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3471

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
ctatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3472

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3472

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctaaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3473

<211> 960

<212> DNA

<213> Homo sapiens

<400> 3473

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgagggaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctgctgct  
gctatTTTTG 900

ttattattat tttctacgtc tgttgttgta agaagaaaac atcagctgca  
gaggggccag 960

<210> 3474

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3474

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatatc tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatg gaatggaacc  
taccagacct 720

gggtggccac taggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3475  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 3475

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacgcta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagttt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attattttct 900

atgtctgttg ttgtaagaag aaaacatcag ctgcagaggg tccag  
945

<210> 3476

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3476

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
agagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctg  
813

<210> 3477

<211> 945

<212> DNA

<213> Homo sapiens

<400> 3477

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540



ccatggtgaa tgtcaccgc agtgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc gaaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctat ttttgttatt  
attattttct 900

atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag  
945

<210> 3478

<211> 960

<212> DNA

<213> Homo sapiens

<400> 3478

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
acatgcaggg 600

cttctggctt ctgtccctgg aatatcacac tgagctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctgctgct  
gctatTTTTG 900

ttattattat tttctacgtc tgttgttgta agaagaaaac atcagctgca  
gaggtccag 960

<210> 3479

<211> 951

<212> DNA

<213> Homo sapiens

<400> 3479

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca  
gggtttctcg 60

ctgagggaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
 aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
 gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
 aacctggaga 360

ctgaggaatg gacaatgccc cagtcctcca gagctcagac cttggccatg  
 aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
 catgcagact 480

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga  
 acagtgcgcc 540

ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg  
 acatgcaggg 600

cttctggcct ctatccctgg aatatcacac tgagctggcg tcaggatggg  
 gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
 taccagacct 720

gggtgggcac caggatttgc caaggagagg agcagagggt cacctgctac  
 atggaacaca 780

gcgggaatca cagcactcac gctgtgccct ctgggaaagt gctggtgctt  
 cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
 gttattatta 900

ttttctatgt ctgttggtgt aagaagaaaa catcagctgc agagggtcca g  
 951

<210> 3480  
 <211> 1064  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 3480

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacctggaga 360

ctgaggaatg gacagtgccc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga  
acagtgcccc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgccctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctgggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttgtt  
attattattt 900

tctatgtccg ttgttgtaag aagaaaacat cagctgcaga tggccagag  
ctcgtgagcc 960

tgcaggtcct ggatcaacac ccagttggga cgagtgaacca cagggatgcc  
acacagctcg 1020

gatttcagcc tctgatgtca gctcttgggt ccactggctc cact  
1064

<210> 3481

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 3481

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca  
gggtttcttg 60

ctgaggtaca tctggatggg cagcccttc tgcgctatga caggcagaaa  
tgcagggcaa 120

agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac  
agagagacca 180

gggacttgac agggaacgga aaggacctca ggatgaccct ggctcatatc  
aaggaccaga 240

aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa  
gacaacagca 300

ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa  
aacgtggaga 360

ctgaggaatg gacagtggcc cagtcctcca gagctcagac cttggccatg  
aacgtcagga 420

atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg  
catgcagact 480

gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga  
acagtgcgcc 540

ccatggtgaa tgtcaccgcg agcgaggcct cagagggcaa catcaccgtg  
acatgcaggg 600

cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg  
gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgacctgatgg gaatggaacc  
taccagacct 720

gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac  
atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt  
cagagtcatt 840

ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatTTTT  
gttattatta 900

ttttctatgt ccgttggtgt aagaagaaaa catcagctgc agagggtcca  
gagctcgtga 960

gcctgcaggt cctggatcaa caccagttg ggatgagtga ccacagggat  
gccacacagc 1020

tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact  
1067

CANON\_APPS 10824\_1